

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:

**July  
2009**

**Edmund G. Brown Jr.**  
Governor  
**State of California**

**John Laird**  
Secretary for Resources  
**The Resources Agency**

**Mark Cowin**  
Director  
**Department of Water Resources**

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**JOHN LAIRD, Secretary for Resources**

Department of Water Resources  
**MARK COWIN, Director**

Department of Water Resources  
**SUSAN SIMS, Chief Deputy Director**

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The organization shown above represents staff and positions relevant to this report as of publication date on May 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities highlight actions that affected State Water Project operations during July 2009.

Statewide precipitation was about 85 percent of average for the water-year through July 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at  
[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)

Snowpack and Statewide Runoff data is compiled four times annually, for the months of January, February, March, and April by the California Department of Water Resources in Bulletin 120. No Snowpack or Statewide Runoff data is available in July. Cumulative Unimpaired runoff for the 2008-09 water year for the Sacramento River Region was 12.3 maf, 69 percent of average, compared to 9.7 maf at this time in 2008.

Statewide reservoir storage was 80 percent of average to date. Total storage in major SWP reservoirs at the end of July 2009 was about 2.47 maf compared to 2.28 maf at this time in 2008. On July 31, 2009, end-of-month storage at Lake Oroville was about 1.55 maf, as compared to 1.29 maf at this time in 2008. The State share of San Luis Reservoir's end-of-month storage was about 383 taf, as compared with 377 taf at this time in 2008. The combined storage in SWP's southern reservoirs was about 537 taf, compared with about 606 taf at this time in 2008.

SWP water deliveries to date through July 2009 were about 1.43 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2008 were 1.84 maf.

On May 31, by mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, "Balanced" conditions were declared in the Delta and remained "Balanced" throughout the end of calendar year 2009. "Balanced" conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports.

On July 22, at 0752 hours, Oroville Field Division reported that during the River Outlet Valve testing, the Chamber bulkhead blew out. Five injured DWR employees were transported to the hospital. Hyatt Plant was forced out of service. The chamber sump spilled waste sump oil into the Feather River. By 1700 hours, all pre-accident units were back online. Oil clean-up was completed by 1800 hours on July 25.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Jun 30	5001.70	22,287									
1	5001.64	22,231	-56	20	0	0	0	13	33	5	
2	5001.60	22,195	-36	20	0	0	0	13	33	15	
3	5001.55	22,149	-46	20	0	0	0	13	33	10	
4	5001.50	22,103	-46	20	0	0	0	13	33	10	
5	5001.45	22,057	-46	20	0	0	0	13	33	10	
6	5001.39	22,002	-55	20	0	0	0	13	33	5	
7	5001.34	21,956	-46	20	0	0	0	13	33	10	
8	5001.29	21,911	-45	20	0	0	0	13	33	10	
9	5001.24	21,865	-46	20	0	0	0	13	33	10	
10	5001.18	21,811	-54	20	0	0	0	13	33	6	
11	5001.14	21,774	-37	20	0	0	0	13	33	14	
12	5001.07	21,711	-63	20	0	0	0	13	33	1	
13	5001.03	21,674	-37	20	0	0	0	13	33	14	
14	5000.98	21,629	-45	20	0	0	0	13	33	10	
15	5000.93	21,584	-45	20	0	0	0	13	33	10	
16	5000.88	21,539	-45	20	0	0	0	13	33	10	
17	5000.82	21,485	-54	20	0	0	0	13	33	6	
18	5000.77	21,439	-46	20	0	0	0	13	33	10	
19	5000.71	21,385	-54	20	0	0	0	13	33	6	
20	5000.66	21,341	-44	20	0	0	0	13	33	11	
21	5000.61	21,296	-45	20	0	0	0	13	33	10	
22	5000.54	21,242	-54	20	0	0	0	13	33	6	
23	5000.50	21,197	-45	20	0	0	0	13	33	10	
24	5000.43	21,135	-62	20	0	0	0	13	33	2	
25	5000.37	21,081	-54	20	0	0	0	13	33	6	
26	5000.31	21,028	-53	20	0	0	0	13	33	6	
27	5000.26	20,983	-45	20	0	0	0	12	32	9	
28	5000.19	20,921	-62	20	0	0	0	12	32	1	
29	5000.14	20,877	-44	20	0	0	0	12	32	10	
30	5000.09	20,823	-54	20	0	0	0	12	32	5	
31	5000.03	20,779	-44	20	0	0	0	12	32	10	
Total cfs-days				- - -	620	0	0	0	395	1,015	255
Total ac-ft				-1,508	1,230	0	0	0	784	2,014	506

**Table 2. Frenchman Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Jun 30	5564.87	26,018									
1	5564.74	25,890	-128	1	50	0	0	14	65	0	
2	5564.65	25,802	-88	1	38	0	0	14	53	9	
3	5564.56	25,713	-89	1	26	0	0	14	41	-4	
4	5564.47	25,625	-88	1	29	0	0	14	44	0	
5	5564.38	25,537	-88	1	29	0	0	14	44	0	
6	5564.30	25,460	-77	1	29	0	0	14	44	5	
7	5564.24	25,401	-59	1	29	0	0	14	44	14	
8	5564.12	25,285	-116	1	31	0	0	14	46	-12	
9	5564.03	25,197	-88	1	31	0	0	14	46	2	
10	5563.92	25,091	-106	1	31	0	0	14	46	-7	
11	5563.82	24,995	-96	1	31	0	0	14	46	-2	
12	5563.74	24,918	-77	1	31	0	0	14	46	7	
13	5563.64	24,822	-96	1	33	0	0	14	48	0	
14	5563.55	24,735	-87	1	33	0	0	14	48	4	
15	5563.44	24,630	-105	1	32	0	0	14	47	-6	
16	5563.36	24,554	-76	1	19	0	0	14	34	-4	
17	5563.34	24,535	-19	1	22	0	0	14	37	27	
18	5563.27	24,468	-67	1	22	0	0	14	37	3	
19	5563.22	24,420	-48	1	22	0	0	14	37	13	
20	5563.17	24,373	-47	2	9	0	0	14	25	1	
21	5563.12	24,326	-47	2	8	0	0	14	24	0	
22	5563.05	24,259	-67	2	21	0	0	14	37	3	
23	5562.96	24,174	-85	2	27	0	0	14	43	0	
24	5562.87	24,089	-85	2	23	0	0	14	39	-4	
25	5562.78	24,004	-85	2	20	0	0	14	36	-7	
26	5562.71	23,939	-65	2	20	0	0	14	36	3	
27	5562.63	23,868	-71	2	20	0	0	14	36	0	
28	5562.57	23,807	-61	2	13	0	0	14	29	-2	
29	5562.53	23,770	-37	2	17	0	0	14	33	14	
30	5562.49	23,732	-38	2	21	0	0	14	37	18	
31	5562.40	23,648	-84	2	26	0	0	14	42	0	
Total cfs-days				---	43	793	0	0	434	1,270	75
Total ac-ft				-2,370	85	1,573	0	0	861	2,519	149

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

## Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Jun 30	5765.03	49,378									
1	5765.02	49,348	-30	8	2	0.9	0	31	42	27	
2	5764.99	49,256	-92	8	2	0.9	0	31	42	-4	
3	5764.95	49,137	-119	8	2	0.9	0	31	42	-18	
4	5764.94	49,107	-30	8	2	0.9	0	31	42	27	
5	5764.91	49,018	-89	8	2	0.9	0	31	42	-3	
6	5764.87	48,899	-119	8	2	0.9	0	31	42	-18	
7	5764.86	48,869	-30	8	3	0.9	0	31	42	27	
8	5764.81	48,721	-148	8	3	0.9	0	31	42	-33	
9	5764.79	48,662	-59	8	3	0.9	0	31	42	12	
10	5764.77	48,602	-60	8	3	0.9	0	31	42	12	
11	5764.73	48,484	-118	8	3	0.9	0	31	42	-18	
12	5764.70	48,395	-89	7	3	0.9	0	31	42	-3	
13	5764.68	48,336	-59	7	3	0.9	0	31	42	12	
14	5764.64	48,218	-118	7	3	0.9	0	31	42	-18	
15	5764.61	48,130	-88	7	3	0.9	0	31	42	-2	
16	5764.59	48,071	-59	7	3	0.9	0	31	42	12	
17	5764.55	47,953	-118	7	3	0.9	0	31	42	-18	
18	5764.53	47,895	-58	7	3	0.9	0	31	42	13	
19	5764.49	47,777	-118	7	3	0.9	0	31	42	-18	
20	5764.47	47,719	-58	7	3	0.9	0	31	42	13	
21	5764.44	47,631	-88	7	3	0.9	0	31	42	-2	
22	5764.43	47,602	-29	7	3	0.9	0	31	42	27	
23	5764.39	47,485	-117	7	3	0.9	0	31	42	-17	
24	5764.35	47,368	-117	7	3	0.9	0	31	42	-17	
25	5764.34	47,339	-29	7	3	0.9	0	31	42	27	
26	5764.28	47,164	-175	7	3	0.9	0	31	42	-46	
27	5764.27	47,135	-29	7	3	0.9	0	31	42	27	
28	5764.24	47,048	-87	7	3	0.9	0	31	42	-2	
29	5764.25	47,077	29	7	3	0.9	0	30	41	56	
30	5764.19	46,903	-174	7	3	0.9	0	30	41	-47	
31	5764.17	46,845	-58	7	3	0.9	0	30	41	12	
Total cfs-days				---	227	84	28	0	958	1,296	
Total ac-ft				-2,533	449	166	55	0	1,901	2,571	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes 55 AF to Grizzly Ranch and 0 AF to Plumas County.

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Jun 30	787.83	2,057,468										
	1	785.77	2,035,333	-22,135	25,000	32	0	0	290	0	25,322	0
	2	783.99	2,016,344	-18,989	24,194	32	0	0	272	0	24,498	0
	3	781.98	1,995,054	-21,290	23,990	32	0	0	263	0	24,285	0
	4	780.69	1,981,476	-13,578	16,717	32	0	0	243	0	16,992	0
	5	778.92	1,962,955	-18,521	21,577	32	0	0	255	0	21,864	0
	6	777.24	1,945,490	-17,465	21,093	32	0	0	272	0	21,397	0
	7	775.26	1,925,052	-20,438	22,736	32	0	0	240	0	23,008	0
	8	773.54	1,907,424	-17,628	21,460	32	0	0	225	0	21,717	0
	9	771.51	1,886,771	-20,653	24,584	32	0	0	254	0	24,870	0
	10	769.81	1,869,597	-17,174	20,492	32	0	0	234	0	20,758	0
	11	768.73	1,858,744	-10,853	14,149	32	0	0	269	0	14,450	0
	12	767.13	1,842,753	-15,991	18,951	32	0	0	225	0	19,208	0
	13	765.21	1,823,693	-19,060	22,272	32	0	0	290	0	22,594	0
	14	763.17	1,803,598	-20,095	23,672	32	0	0	270	0	23,974	0
	15	760.88	1,781,231	-22,367	25,594	32	0	0	261	0	25,887	0
	16	758.59	1,759,051	-22,180	26,338	32	0	0	318	0	26,688	0
	17	756.84	1,742,225	-16,826	21,462	33	0	0	310	0	21,805	0
	18	755.35	1,727,989	-14,236	18,233	34	0	0	321	0	18,588	0
	19	754.15	1,716,584	-11,405	14,157	34	0	0	300	0	14,491	0
	20	752.68	1,702,686	-13,898	18,816	34	0	0	288	0	19,138	0
	21	750.95	1,686,432	-16,254	20,170	34	0	0	268	0	20,472	0
	22	750.02	1,677,740	-8,692	12,948	34	0	0	211	0	13,193	0
	23	748.23	1,661,100	-16,640	20,347	34	0	0	244	0	20,625	0
	24	746.38	1,644,025	-17,075	20,934	34	0	0	213	0	21,181	0
	25	745.83	1,638,972	-5,053	9,762	34	0	0	178	0	9,974	0
	26	744.60	1,627,713	-11,259	15,660	34	0	0	217	0	15,911	0
	27	742.49	1,608,525	-19,188	23,744	34	0	0	255	0	24,033	0
	28	740.54	1,590,934	-17,591	21,389	34	0	0	214	0	21,637	0
	29	739.03	1,577,406	-13,528	16,651	34	1	0	224	0	16,910	0
	30	737.60	1,564,669	-12,737	17,112	34	0	1	184	0	17,331	0
	31	736.40	1,554,036	-10,633	14,136	34	0	1	172	0	14,343	0
Total				-503,432	618,340	1,021	1	2	7,780	0	627,144	0
123,712												

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

**July 2009**

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Jun 30	23,688										
1	24,148	460	25,000	464	0	23,615	3	9	1,299	0	-78
2	23,810	-338	24,194	464	0	23,540	3	9	1,303	0	-141
3	23,749	-61	23,990	464	0	23,114	3	9	1,309	0	-80
4	23,714	-35	16,717	464	0	15,944	3	9	1,315	0	55
5	23,609	-105	21,577	464	0	20,726	3	9	1,329	0	-79
6	23,968	359	21,093	464	0	19,796	3	9	1,331	0	-59
7	24,119	151	22,736	464	0	21,468	3	9	1,464	0	-105
8	23,744	-375	21,460	464	0	20,412	3	9	1,753	0	-122
9	23,550	-194	24,584	464	0	23,738	3	9	1,468	0	-24
10	23,696	146	20,492	464	0	19,474	3	9	1,384	0	60
11	23,745	49	14,149	464	0	13,358	3	9	1,313	0	119
12	23,704	-41	18,951	465	0	17,962	3	9	1,325	0	-158
13	23,149	-555	22,272	464	0	21,828	3	9	1,313	0	-138
14	23,133	-16	23,672	464	0	22,698	4	9	1,319	0	-122
15	24,036	903	25,594	464	0	23,588	4	9	1,722	0	168
16	23,609	-427	26,338	464	0	25,250	4	9	2,037	0	71
17	24,108	499	21,462	464	0	19,702	4	10	1,795	0	84
18	23,755	-353	18,233	403	0	18,515	4	10	1,319	0	859
19	23,805	50	14,157	382	0	13,112	4	10	1,317	0	-46
20	23,102	-703	18,816	459	0	18,476	4	10	1,315	0	-173
21	23,868	766	20,170	383	0	18,706	4	10	1,321	0	254
22	23,543	-325	12,948	460	0	12,670	4	10	1,325	0	276
23	23,479	-64	20,347	458	0	19,440	4	10	1,311	0	-104
24	24,053	574	20,934	459	0	19,446	4	10	1,313	0	-46
25	23,687	-366	9,762	459	0	9,350	4	10	1,315	0	92
26	23,804	117	15,660	459	0	14,600	4	10	1,317	0	-71
27	23,846	42	23,744	459	0	22,402	4	10	1,321	0	-424
28	24,208	362	21,389	459	0	19,893	4	10	1,874	0	295
29	23,665	-543	16,651	459	0	15,152	4	10	2,426	0	-61
30	23,873	208	17,112	459	0	15,640	4	10	1,686	0	-23
31	23,674	-199	14,136	459	0	13,486	4	10	1,325	0	31
Total		-14	618,340	14,106	0	587,101	111	294	45,264	0	310

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation  
(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Jun 30	130.78	34,793	4,108	23,615	2,955	24	861	2,281	12,734	0	-652	14,033	
1	131.94	38,901		23,540	2,916	26	851	2,222	12,734	0	-850	14,037	
2	133.00	42,842		23,114	2,936	26	851	2,182	13,270	0	-759	14,579	
3	133.80	45,932		15,944	2,936	22	849	2,182	13,726	0	-527	15,041	
4	132.68	41,634		20,726	2,916	24	849	2,182	13,726	0	-653	15,055	
5	132.78	42,010		19,796	2,896	24	851	2,182	13,726	0	-793	15,057	
6	132.60	41,334		21,468	2,896	24	873	2,162	13,746	0	-487	15,210	
7	132.94	42,614		20,412	2,896	24	881	2,162	13,448	0	-811	15,201	
8	132.99	42,804		23,738	2,876	24	859	2,182	13,726	0	-628	15,194	
9	133.88	46,247		19,474	2,896	24	835	2,182	14,261	0	-372	15,645	
10	133.60	45,151		13,358	2,896	24	823	2,162	14,737	0	-834	16,050	
11	131.42	37,033		17,962	2,916	24	827	2,162	14,737	0	-632	16,062	
12	130.46	33,697		21,828	2,955	24	831	2,142	14,737	0	-559	16,050	
13	130.63	34,277		22,698	2,936	24	831	2,122	14,737	0	-490	16,056	
14	131.08	35,835		23,588	2,916	24	817	2,103	13,408	0	-889	15,130	
15	132.04	39,266		25,250	2,916	24	811	2,083	12,139	0	-493	14,176	
16	133.83	46,050		19,702	2,936	24	795	2,063	12,337	0	-521	14,132	
17	134.09	47,076		18,515	2,936	24	789	2,043	12,734	0	-739	14,053	
18	133.90	46,326		13,112	2,896	22	789	2,023	12,714	0	-330	14,031	
19	132.42	40,664		18,476	2,876	24	797	2,023	12,714	0	-338	14,029	
20	132.34	40,368		18,706	2,876	24	807	2,023	12,714	0	-410	14,035	
21	132.30	40,220		12,670	2,856	24	787	2,003	8,370	0	-888	9,695	
22	131.68	37,962		19,440	2,856	24	768	2,003	7,220	0	37	8,531	
23	133.45	44,568		19,446	2,876	24	762	2,003	10,751	0	-205	12,064	
24	134.17	47,393		9,350	2,876	24	760	2,003	9,660	0	-496	10,975	
25	132.49	40,924		14,600	2,856	24	760	2,003	10,751	0	-265	12,068	
26	131.93	38,865		22,402	2,876	24	762	2,003	10,751	0	-50	12,072	
27	133.51	44,801		19,893	2,896	24	760	1,970	10,453	0	-321	12,327	
28	134.39	48,270		15,152	2,876	24	760	1,958	10,136	0	-354	12,562	
29	134.15	47,314		15,640	2,856	24	754	1,944	10,493	0	-281	12,179	
30	133.97	46,602		13,486	2,836	24	750	1,930	10,731	0	-250	12,056	
31	133.19	43,567		23,615	2,955	24	861	2,281	12,734	0	-15,842	427,385	
Total				8,774	587,101	89,830	744	25,100	64,690	382,121	0		

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

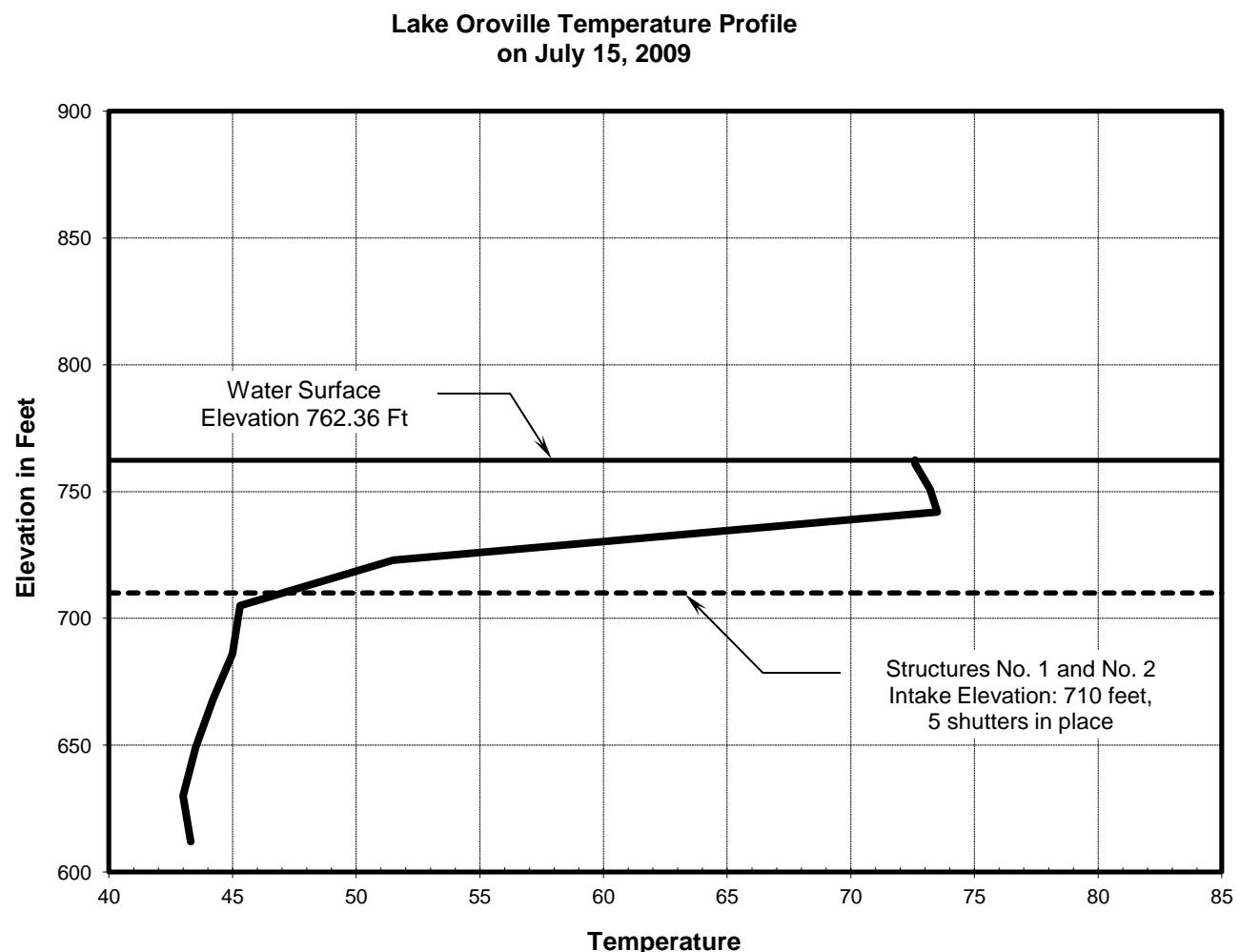
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

**July 2009**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	65	61
2	64	59
3	64	60
4	64	61
5	64	60
6	64	60
7	64	62
8	64	61
9	65	59
10	64	56
11	64	57
12	63	58
13	63	59
14	62	60
15	63	60
16	63	61
17	65	60
18	66	57
19	67	58
20	66	59
21	64	59
22	64	59
23	64	60
24	64	57
25	65	57
26	66	58
27	65	60
28	63	60
29	63	61
30	64	60
31	65	57



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Permit	Article 56C	Settlement	Other	
	No.	Structure	Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,264	136 313 1,001 1/ 196 3/ 200 142	200 413 505 199 134 798 7	12	2/ 750		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	336						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	313						
				Solano County Water Agency Fairfield / Vacaville 42"	1,414						
			17.00	Solano County Water Agency Central Solano	Stub						
2	3A	Cordelia Forebay	21.23			199 134 798 7	12	2/ 750			
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,158						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	713						
				Solano County Water Agency Benicia	949						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
3B	2		26.95	Napa County Flood Control & WCD American Canyon 2	334	12	4/ 215	2/ 750			
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	1,155						
			27.60	Napa County Flood Control & WCD American Canyon 1	7						

1/ Napa Co. FC&WCD TBLA through Solano's Co.'s turnout (Reach 3A) for delivery to American Canyon.

2/ Table A Exchange.

3/ Solano Permit water sold to American Canyon, delivered to Cordelia Forebay and pumped to American Canyon via Reach 3B.

4/ Includes 5 AF of Pool A, 8 AF of Pool B, 143 AF of 2009 Drought Water Bank, 16 AF of Dry Purchase 2, 16 AF of Dry Purchase 3, and 27 AF of Dry Purchase 4.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

July 2009

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	150	76	9,604	9,604	548	0	0	0
2	165	76	9,954	9,954	505	0	0	0
3	169	89	11,822	11,822	537	0	0	0
4	155	84	11,832	11,832	520	0	0	0
5	138	71	11,832	11,832	529	0	0	0
6	137	75	13,062	13,062	536	0	0	0
7	186	108	13,672	13,672	526	0	0	0
8	193	118	13,328	13,328	543	0	0	0
9	188	98	14,205	13,289	537	6	0	0
10	191	90	14,420	13,504	531	180	0	0
11	183	105	14,420	13,504	522	193	0	0
12	164	110	14,392	13,476	523	193	0	0
13	155	95	13,272	12,356	300	99	0	0
14	174	124	14,168	13,252	402	193	0	0
15	180	116	11,342	11,342	384	189	0	0
16	194	107	10,024	10,024	204	8	0	0
17	191	109	11,071	11,071	313	0	0	58
18	183	108	13,718	12,425	256	0	0	228
19	161	105	14,391	13,098	256	0	0	263
20	161	105	13,214	11,921	255	0	0	263
21	169	112	13,257	11,964	238	0	0	263
22	162	108	14,226	12,933	168	0	0	141
23	160	108	14,245	12,036	184	0	0	89
24	181	111	9,841	7,632	437	0	0	33
25	169	107	9,891	7,682	447	0	0	0
26	179	112	9,967	7,758	484	0	0	0
27	180	113	9,538	9,538	531	0	0	0
28	137	96	10,565	10,565	571	0	0	0
29	166	106	14,246	14,246	599	0	0	0
30	157	106	13,771	11,024	613	0	0	0
31	186	110	8,992	6,245	607	0	0	0
Total	5,264	3,158	382,282	355,991	13,606	1,061	0	1,338

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**July 2009**

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	0:01	8:20	12:30	19:45					9,309
2	3:45	10:30	13:30	19:30					9,911
3	0:01	1:30	4:15	10:20	14:15	20:45			11,887
4	0:01	2:30	5:00	12:00	15:00	21:00			11,896
5	0:01	3:15	5:45	12:10	13:30	21:23			11,889
6	4:00	4:15	6:30	13:13	16:15	22:20	23:48		12,475
7		4:45	7:00	11:55	17:30	22:19			13,245
8	0:15	5:30	8:45	13:10	17:15	22:00			13,231
9	0:01	6:15	8:15	13:35	17:45	22:20			14,176
10	0:01	6:45	9:00	14:15	18:15	22:25			14,167
11	0:01	7:30	9:30	14:30	18:45	22:35			14,155
12	0:01	8:15	10:15	16:15	19:15	22:00			14,234
13	0:01	9:15	11:15	16:15	20:00	23:30			14,235
14	0:01	5:53	6:39	10:15	12:15	17:30			14,237
15	0:01	11:15	14:15	19:35					9,913
16	0:46	8:15	11:15	17:30					9,905
17	2:13	9:30	12:30	20:10					11,878
18	3:15	10:15	13:15	22:44					14,233
19	0:01	1:30	4:15	11:15	14:15	21:55			14,233
20	0:01	1:30	4:15	11:15	14:15	21:55	23:30		14,216
21		3:30	6:15	12:35	15:45	22:40			14,217
22	0:01	4:30	7:00	12:55	16:30				14,016
23		5:30	8:00	13:32	17:15	23:45			14,236
24	0:01	6:15	8:15	13:21	18:20	22:00	23:44		9,812
25		7:15	9:45	13:27	18:45				9,905
26		8:15	10:45	16:30	19:30	22:21			9,895
27	0:03	5:30	19:10	20:17					9,903
28	0:30	6:05	9:30	20:40					10,864
29	1:15	7:45	10:45	20:30					14,238
30	2:00	9:00	12:00	21:08					13,240
31	3:00	10:00	12:00	21:30					8,919
Total inflow for the month in AF:									382,670

**Table 11. Governor Edmund G. Brown California Aqueduct**  
 Delta Field Division, Monthly Deliveries

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Pool A / Pool B	Dry Purchase	Local Other	
	No.	Structure	Mile								
1A			1.83	Byron-Bethany I.D.	3,502					3,502	
1	1	Banks Pumping Plant	3.32		382,282						
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	13,606						
		Check No. 1	5.95								
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0						
	2	Check No. 2	12.01								
			12.47	Musco Olive	16		16				
		Check No. 3	18.29								
	3		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
2A	4	Check No. 5	29.73								
		Check No. 6	34.24								
			35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
			42.46	Oak Flat Water District-A	77	56		1/ 3	2/ 18		
			42.9	Western Hills WD	176	176					
	8		43.81	Oak Flat Water District-B	114	33			3/ 81		
			44.64	Oak Flat Water District-C	95	95					
		Check No. 8	45.97								
			46.18	Oak Flat Water District-D	167	167					
				Oak Flat Totals:	453	351	0	3	99	0	
2B	9	Check No. 9	51.3								
		Check No. 10	56.86								
	10	Check No. 11	61.4								
			66.14	Veteran's Cemetery	31		19			12	
		Check No. 12	66.71		357,918						

1/ Includes 1 AF of Pool A and 2 AF of Pool B.

2/ Includes 9 AF of Dry Purchase 2 and 9 AF of Dry Purchase 3.

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Local	Article 56C	Other	Recreation	
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	13,606	3	36	1/ 1,064			
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	3						
	2	Check No. 1	3.91			36	167	2,385	2/ 110	25	
		Check No. 2	5.21								
	3		7.21	Zone 7 Water Agency Altamont	36	45	106	117	117	117	
2		Check No. 3	9.49	Zone 7 Water Agency Patterson Storage Exchange Project Water	0						
4	4	Check No. 4	10.68			89	243	169	169	169	
	5	Check No. 5	12.29								
	6		13.55	Zone 7 Water Agency Wente #1	216						
			14.16	Zone 7 Water Agency Wente #2	120						
			14.31	Zone 7 Water Agency Ising	45						
		Check No. 6	14.65								
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	167		110	2,085	3/ 8	25	
		Check No. 7	16.38								
	8		16.57	Zone 7 Water Agency Wente #3	0		47	771	4/ 7,649	4/ 7,649	
			16.63	Zone 7 Water Agency Wente #4	106						
			16.69	Zone 7 Water Agency Norman Nursery	0						
			16.70	Zone 7 Water Agency Concannon Project Water	89						
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	1,061						
				Pumped into South Bay Aqueduct	0						
				Gravity into South Bay Aqueduct	1,338						
		Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water Inflow Exchange Inflow Release	243		47	2,085	3/ 8	25	
				East Bay Regional Park Dist. Del Valle Recreation	25						
				Zone 7 Water Agency Wente #5	110						
6			19.20	Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	0	263	117	2,385	2/ 110	25	
			19.21	Zone 7 - Kalthrof Detjens	263						
7	La Costa Tunnel		22.50	ACWD - Vallecitos Project Water	117	117	2,085	3/ 8	3/ 8	3/ 8	
			25.97	City of San Francisco San Antonio	0						
8	Mission Tunnel		28.97	ACWD - Bayside 1 & 2 Project Water Storage Exchange	2,093						
9	Santa Clara Pipeline		35.86	S.C.V.W.D. Meter	8,420						

1/ Semitropic Bank Recovery.

2/ Includes 55 AF of Dry Purchase 2 and 55 AF of Dry Purchase 3.

3/ Pool A.

4/ Includes 500 AF of SCVWD's CVP water exchanged for DWR's project supplies, 5,165 AF of Semitropic Bank Recovery, 20 AF of Pool A,

34 AF of Pool B, 896 AF of 2009 Drought Water Bank, 153 of Dry Purchase 2, 124 AF of Dry Purchase 3, and 757 AF of Dry Purchase 4.

**Table 13. Lake Del Valle**  
Daily Operation

Capacity: 77,106 ac-ft

**July 2009**

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Jun 30	701.78	39,057									
1	700.46	38,143	-914	-898	0		0	1	15	16	0.00
2	700.43	38,122	-21	-8	0		0	1	12	13	0.00
3	700.41	38,108	-14	1	0		0	1	14	15	0.00
4	700.39	38,095	-13	2	0		0	1	14	15	0.00
5	700.30	38,033	-62	-46	0		0	1	15	16	0.00
6	700.33	38,053	20	32	0		0	1	11	12	0.00
7	700.31	38,040	-13	1	0		0	1	13	14	0.00
8	700.30	38,033	-7	8	0		0	1	14	15	0.00
9	700.24	37,992	-41	-34	6		0	1	12	13	0.00
10	700.52	38,184	192	26	180		0	1	12	13	0.00
11	700.78	38,363	179	0	193		0	1	14	15	0.00
12	701.03	38,536	173	-7	193		0	1	12	13	0.00
13	701.16	38,626	90	8	99		0	1	16	17	0.00
14	701.40	38,793	167	-5	193		0	1	20	21	0.00
15	701.65	38,967	174	6	189		0	1	20	21	0.00
16	701.65	38,967	0	9	8		0	1	16	17	0.00
17	701.56	38,904	-63	17	0		58	1	21	80	0.00
18	701.28	38,709	-195	51	0		228	1	17	246	0.00
19	701.01	38,522	-187	96	0		263	1	19	283	0.00
20	700.66	38,280	-242	41	0		263	1	19	283	0.00
21	700.36	38,074	-206	77	0		263	1	19	283	0.00
22	700.05	37,861	-213	-59	0		141	1	12	154	0.00
23	699.77	37,670	-191	-84	0		89	1	17	107	0.00
24	699.58	37,541	-129	-85	0		33	1	10	44	0.00
25	699.54	37,513	-28	-17	0		0	1	10	11	0.00
26	699.52	37,500	-13	1	0		0	0	14	14	0.00
27	699.50	37,486	-14	2	0		0	0	16	16	0.00
28	699.49	37,479	-7	8	0		0	0	15	15	0.00
29	699.47	37,466	-13	-1	0		0	0	12	12	0.00
30	699.45	37,452	-14	-2	0		0	0	12	12	0.00
31	699.43	37,438	-14	-2	0		0	0	12	12	0.00
<b>Total</b>				<b>-1,619</b>	<b>-860</b>	<b>1,061</b>	<b>0</b>	<b>1,338</b>	<b>25</b>	<b>457</b>	<b>1,820</b>
											0.00

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

July 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Jun 30	221.70	47,598											
1	222.20	48,916	1,318	0	177	2,772	4,542	763	0	6,010	34	-20	
2	221.73	47,677	-1,239	0	539	0	4,525	0	0	5,771	34	116	
3	222.20	48,916	1,239	0	646	0	5,439	0	0	5,334	27	-99	
4	222.12	48,703	-213	0	699	0	5,891	0	1,690	4,922	11	-74	
5	221.57	47,257	-1,446	0	1,027	0	5,527	0	1,690	5,571	11	-11	
6	223.37	52,035	4,778	0	1,445	0	5,935	0	422	4,433	14	-102	
7	223.95	53,592	1,557	0	936	0	6,538	0	1,133	5,284	16	-256	
8	222.94	50,886	-2,706	0	725	0	6,493	0	3,319	5,213	13	-37	
9	222.88	50,726	-160	0	584	0	6,657	0	1,692	5,606	13	-11	
10	223.20	51,580	854	0	589	0	6,688	0	1,674	5,152	26	6	
11	223.33	51,928	348	0	557	0	6,806	0	1,670	5,392	19	-107	
12	223.67	52,840	912	0	606	0	7,029	0	1,670	5,357	16	-132	
13	223.16	51,474	-1,366	0	672	0	6,152	0	3,054	4,513	16	70	
14	222.61	50,006	-1,468	0	693	0	6,667	0	3,302	4,645	16	-137	
15	222.35	49,314	-692	0	709	0	5,712	0	1,640	4,937	25	-168	
16	222.15	48,783	-531	0	760	352	4,340	0	680	5,243	22	225	
17	221.66	47,493	-1,290	0	721	0	4,813	0	0	6,034	26	-124	
18	223.20	51,580	4,087	0	640	0	7,227	0	0	5,469	24	-314	
19	222.73	50,326	-1,254	0	602	0	6,924	0	1,650	6,306	24	-178	
20	222.69	50,219	-107	0	721	0	6,107	0	1,638	5,262	24	42	
21	223.09	51,287	1,068	0	936	0	5,218	0	0	6,137	24	545	
22	224.50	55,076	3,789	0	958	0	7,454	0	549	5,708	28	-217	
23	224.27	54,454	-622	0	856	0	7,383	0	1,651	6,672	21	-209	
24	223.33	51,928	-2,526	0	801	0	4,233	0	0	6,368	23	83	
25	222.19	48,889	-3,039	0	851	355	4,949	0	0	7,666	21	0	
26	221.97	48,308	-581	0	1,044	1,420	4,399	0	0	6,905	16	-235	
27	223.78	53,135	4,827	0	1,229	2,189	4,452	0	0	5,270	23	-143	
28	224.57	55,266	2,131	0	1,270	1,396	4,373	0	0	5,828	27	-110	
29	224.63	55,428	162	0	1,311	0	6,809	0	2,227	5,600	14	-197	
30	224.06	53,888	-1,540	0	1,477	0	7,218	0	3,728	5,415	13	-315	
31	223.31	51,875	-2,013	0	1,415	0	3,947	0	1,097	5,234	15	-31	
Total				4,277	0	26,196	8,484	180,447	763	36,176	173,257	636	-2,140
Mean cfs				---	0	845	274	5,821	25	1,167	5,589	21	-69
Acre-feet				4,277	0	51,968	16,828	357,918	1,513	71,753	343,647	1,262	-4,262

1/ Pump-in located at Mile 79.67R.

2/ Includes 138 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., and 1,123 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

**July 2009**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Jun 30	376.79	350,801							
1	375.92	344,648	-6,153	0	2,772	242	0	-88	
2	375.82	343,972	-676	0	0	237	0	-104	
3	375.74	343,432	-540	0	0	264	0	-8	
4	376.00	345,391	1,959	1,690	0	237	0	-465	
5	376.36	347,853	2,462	1,690	0	211	0	-238	
6	376.47	348,606	753	422	0	230	0	188	
7	376.26	347,168	-1,438	1,133	0	231	0	-1,627	
8	377.06	352,657	5,489	3,319	0	242	0	-310	
9	377.41	355,068	2,411	1,692	0	246	0	-230	
10	377.76	357,485	2,417	1,674	0	246	0	-209	
11	378.13	360,046	2,561	1,670	0	238	0	-141	
12	378.48	362,475	2,429	1,670	0	224	0	-221	
13	379.17	367,281	4,806	3,054	0	250	0	-381	
14	380.20	374,497	7,216	3,302	0	270	0	606	
15	380.53	376,820	2,323	1,640	0	271	0	-198	
16	380.60	377,314	494	680	352	267	0	188	
17	380.50	376,609	-705	0	0	273	0	-82	
18	380.41	375,975	-634	0	0	265	0	-55	
19	380.65	377,666	1,691	1,650	0	260	0	-537	
20	381.02	380,279	2,613	1,638	0	274	0	-47	
21	380.89	379,360	-919	0	0	282	0	-181	
22	380.87	379,219	-141	549	0	292	0	-328	
23	381.15	381,198	1,979	1,651	0	279	0	-374	
24	381.10	380,845	-353	0	0	287	0	109	
25	380.91	379,501	-1,344	0	355	274	0	-49	
26	380.43	376,116	-3,385	0	1,420	267	0	-20	
27	379.72	371,128	-4,988	0	2,189	266	0	-60	
28	379.25	367,840	-3,288	0	1,396	266	0	4	
29	379.61	370,357	2,517	2,227	0	246	0	-712	
30	380.80	378,725	8,368	3,728	0	269	0	760	
31	381.05	380,491	1,766	1,097	0	258	1	52	
Total		29,690		36,176	8,484	7,964	1	-4,758	
Mean cfs		---		1,167	274	257	0	-153	
Acre-feet		29,690		71,753	16,828	15,795	1	-9,439	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 13,460 AF, Casa De Fruta 0 AF, and San Benito 2,335 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**July 2009**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	13,244	9,556	5,498	1,635	0	0	480
2	12,718	9,049	0	0	0	0	470
3	11,756	8,122	0	0	0	0	523
4	10,847	7,123	0	0	3,352	2,301	470
5	12,279	8,592	0	0	3,352	2,303	419
6	9,769	5,776	0	0	838	17	456
7	11,644	7,946	0	0	2,248	2,248	459
8	11,488	8,861	0	0	6,584	3,271	480
9	12,355	9,731	0	0	3,357	99	487
10	11,355	8,749	0	0	3,321	77	487
11	11,883	9,245	0	0	3,312	75	472
12	11,807	9,115	0	0	3,312	3,312	444
13	9,947	7,309	0	0	6,058	6,058	496
14	10,237	7,666	0	0	6,549	6,549	535
15	10,880	6,932	0	0	3,253	3,253	537
16	11,555	7,612	699	699	1,348	1,348	530
17	13,299	9,325	0	0	0	0	541
18	12,052	8,144	0	0	0	0	526
19	13,897	9,984	0	0	3,273	171	516
20	11,597	7,618	0	0	3,248	3,248	544
21	13,524	9,555	0	0	0	0	560
22	12,580	12,580	0	0	1,088	26	579
23	14,703	14,703	0	0	3,274	2,492	554
24	14,035	14,035	0	0	0	0	569
25	16,895	16,895	704	704	0	0	543
26	15,219	15,219	2,817	2,817	0	0	530
27	11,616	11,616	4,342	4,342	0	0	528
28	12,843	12,843	2,768	2,768	0	0	527
29	12,341	8,036	0	0	4,417	4,417	488
30	11,934	7,563	0	0	7,394	7,394	533
31	11,535	7,227	0	0	2,175	2,175	512
Total	381,834	296,727	16,828	12,965	71,753	50,834	15,795

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
July 2009

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jun 30	323.83	18,757					
1	323.79	18,740	-17	0	0	0	-17
2	323.77	18,731	-9	0	0	0	-9
3	323.74	18,717	-14	0	0	0	-14
4	323.71	18,704	-13	0	0	0	-13
5	323.67	18,686	-18	0	0	0	-18
6	323.64	18,673	-13	0	0	0	-13
7	323.61	18,659	-14	0	0	0	-14
8	323.58	18,646	-13	0	0	0	-13
9	323.54	18,628	-18	0	0	0	-18
10	323.52	18,619	-9	0	0	0	-9
11	323.49	18,606	-13	0	0	0	-13
12	323.46	18,593	-13	0	0	0	-13
13	323.44	18,584	-9	0	0	0	-9
14	323.43	18,579	-5	0	0	0	-5
15	323.40	18,566	-13	0	0	0	-13
16	323.38	18,557	-9	0	0	0	-9
17	323.38	18,557	0	0	0	0	0
18	323.34	18,539	-18	0	0	0	-18
19	323.31	18,526	-13	0	0	0	-13
20	323.26	18,504	-22	0	0	0	-22
21	323.23	18,491	-13	0	0	0	-13
22	323.20	18,477	-14	0	0	0	-14
23	323.16	18,460	-17	0	0	0	-17
24	323.12	18,442	-18	0	0	0	-18
25	323.10	18,433	-9	0	0	0	-9
26	323.09	18,429	-4	0	0	0	-4
27	323.09	18,429	0	0	0	0	0
28	323.03	18,402	-27	0	0	0	-27
29	323.00	18,389	-13	0	0	0	-13
30	322.96	18,371	-18	0	0	0	-18
31	322.94	18,362	-9	0	0	0	-9
Total			-395	0	0	0	-395
Mean cfs			---	0	0	0	---
Acre-feet			-395	0	0	0	-395

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

**July 2009**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jun 30	600.50	709					
1	600.50	709	0	0	0	0	0
2	600.50	709	0	0	0	0	0
3	600.50	709	0	0	0	0	0
4	600.50	709	0	0	0	0	0
5	600.50	709	0	0	0	0	0
6	600.50	709	0	0	0	0	0
7	600.50	709	0	0	0	0	0
8	600.50	709	0	0	0	0	0
9	600.50	709	0	0	0	0	0
10	600.50	709	0	0	0	0	0
11	600.50	709	0	0	0	0	0
12	600.50	709	0	0	0	0	0
13	600.50	709	0	0	0	0	0
14	600.50	709	0	0	0	0	0
15	600.50	709	0	0	0	0	0
16	600.50	709	0	0	0	0	0
17	600.50	709	0	0	0	0	0
18	600.50	709	0	0	0	0	0
19	600.50	709	0	0	0	0	0
20	600.50	709	0	0	0	0	0
21	600.50	709	0	0	0	0	0
22	600.50	709	0	0	0	0	0
23	600.50	709	0	0	0	0	0
24	600.50	709	0	0	0	0	0
25	600.50	709	0	0	0	0	0
26	600.50	709	0	0	0	0	0
27	600.50	709	0	0	0	0	0
28	600.50	709	0	0	0	0	0
29	600.50	709	0	0	0	0	0
30	600.50	709	0	0	0	0	0
31	600.50	709	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		357,918						
3A		San Luis Reservoir		Department of Parks and Recreation	1	13,460		1	0		
				San Felipe Division Santa Clara Water District	13,460						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	2,335						
				Reach 3A Subtotal:	15,796		15,795	0	1		
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1	138		1	0		
				Cattle Program	0						
				Department of Fish & Game	138						
		Thru	70.91	San Luis Water District	1,123	1,123		76	62		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	1,262	343,647	1,123	0	77		
		Dos Amigos Pumping Plant	86.73				62				
4	14		89.03	San Luis Water District	9,615	9,615					
			Thru 94.06								
			89.66	Pacheco Water District	1,463		1,463				
			Thru 89.67								
			89.68	Panoche Water District	58		58	191			
			89.70	City of Dos Palos	191	1,695					
			Check No. 14	95.06							
			98.15	San Luis Water District	1,695		4,078				
			Thru 104.20								
			96.15	Panoche Water District	4,078						
			Thru 102.64	(Floodwater Inflow)	0						
	15		102.64	Broadview Water District	0	8,452					
			105.22	Westlands Water District	8,452						
			Thru 108.64								
			Check No.15	108.50							
				Reach 4 Subtotal:	25,552	25,552	0	0	0		
				San Felipe Division Total:	15,795	15,795	0	0	0		
				Pacheco Water District Total:	1,463	1,463	0	0	0		
				Broadview Water District Total:	0	0	0	0	0		
				City of Dos Palos Total:	191	191	0	0	0		
				SLWD Reach 4 Subtotal:	11,310	11,310	0	0	0		
				Panoche Water District Total:	4,136	4,136	0	0	0		
				SLWD Total:	12,433	12,433	0	0	0		
				Westlands WD Reach 4 Subtotal:	8,452	8,452	0	0	0		

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries										
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation							
		No.	Structure	Mile												
5	16			(Reverse flow, Kings River)	0	13,056		1	0							
				110.52	Westlands Water District	13,056										
				Thru	Dept. of Fish and Game @ Lat. 4L	1										
				122.05	Dept. of Fish and Game @ Lat. 6L	0										
					Dept. of Fish and Game @ Lat. 7L	0										
		Check No. 16	122.07													
	17			124.18	Westlands Water District	4,216	3,716	1/ 500								
				Thru												
				132.74												
	Check No. 17	132.95														
	18			133.81	Westlands Water District	9,605	9,605									
				Thru												
				142.61												
				Pleasant Valley Pumping Plant	Westlands Water District	8,311	8,311									
				143.16	City of Coalinga	738										
		Check No. 18	143.23													
					Reach 5 Subtotal:	35,927	35,426	500	1	0						
					GWF Energy	0										
6	19			145.26	City of Huron	0	2/ 379									
					SWP Construction @ Lat. 24R	0										
					Kings County to Lemoore NAS Through WWD	379										
					Kings County through WWD 30L	0										
					Westlands Water District	10,997										
				Check No. 19	155.64											
						Reach 6 Subtotal:	11,376	0	11,376	0	0					
	20			156.34	City of Huron	126	126	3/ 100								
				156.40	SWP Construction @ Lat. 24R	0										
				Thru	Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0										
				163.69	Westlands Water District	4,315										
		Check No. 20	164.69													
7	21			164.79	City of Avenal	253	4,215	3/ 100								
				167.04	Westlands Water District	2,070										
				Thru												
				171.67												
				Check No. 21	172.40	267,421										
					Reach 7 Total:	6,764	6,664	100	0	0	0					
					SWP Construction Total:	0	0	0	0	0	0					
					Westlands WD Total:	61,022	49,425	11,597	0	0	0					
					City of Coalinga Total:	738	738	0	0	0	0					
					City of Huron Total:	126	126	0	0	0	0					
					Kings County to Lemoore NAS Through WWD	379	0	379	0	0	0					
					City of Avenal Total:	253	253	0	0	0	0					
Total San Luis Field Division Deliveries:						96,677	84,560	11,976	78	63						

1/ Same land owner transfer (Hansen/Newton) from Tulare Lake Basin WSD.

2/ From County of Kings to Lemoore NAS through WWD 29L and 30L.

3/ Same land owner transfer (Westlake Farms) from Tulare Lake Basin WSD

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations  
July 2009

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Jun 30	28,037								
1	27,953	-84	0	6,010	237	77	987	4,535	-216
2	28,489	536	0	5,771	191	75	987	4,007	-241
3	28,444	-45	0	5,334	191	75	987	3,859	-245
4	28,302	-142	0	4,922	191	75	987	3,660	-80
5	28,471	169	0	5,571	191	75	987	4,538	305
6	28,761	290	0	4,433	191	75	987	3,113	79
7	28,615	-146	0	5,284	191	75	987	4,153	49
8	28,300	-315	0	5,213	191	70	987	4,044	-79
9	28,280	-20	0	5,606	220	69	896	4,207	-224
10	28,194	-86	0	5,152	220	69	896	3,764	-246
11	28,159	-35	0	5,392	220	69	896	4,121	-104
12	28,850	691	0	5,357	220	69	896	3,971	148
13	28,689	-161	0	4,513	220	69	896	3,477	68
14	28,087	-602	0	4,645	220	69	896	3,733	-30
15	27,756	-331	0	4,937	220	69	896	3,746	-172
16	27,917	161	0	5,243	220	69	1,162	3,716	5
17	28,366	449	0	6,034	220	69	1,162	4,422	66
18	28,354	-12	0	5,469	220	69	1,162	4,320	296
19	28,480	126	0	6,306	220	69	1,162	5,304	513
20	27,976	-504	0	5,262	220	69	1,162	4,367	302
21	28,345	369	0	6,137	185	69	1,162	4,650	115
22	28,161	-184	0	5,708	185	69	1,162	4,609	224
23	28,639	478	0	6,672	218	58	1,050	5,071	-34
24	28,584	-55	0	6,368	218	58	1,050	4,980	-90
25	28,184	-400	0	7,666	218	58	1,050	6,623	81
26	29,341	1,157	0	6,905	218	58	1,050	5,261	266
27	28,733	-608	0	5,270	218	58	1,050	4,504	254
28	28,441	-292	0	5,828	218	58	1,022	4,753	75
29	28,833	392	0	5,600	218	58	1,021	4,357	252
30	29,042	209	0	5,415	213	58	901	4,259	121
31	27,810	-1,232	0	5,234	213	58	901	4,697	14
Total		-227	0	173,257	6,536	2,085	31,397	134,823	1,472
Mean cfs		---	0	5,589	211	67	1,013	4,349	47
Acre-feet		-227	0	343,647	12,964	4,136	62,519	267,421	3,166

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 1,463 AF to Pacheco W.D., 191 AF to the City of Dos Palos and 11,310 AF to San Luis Water District.

3/ Includes 126 AF to the City of Huron, 253 AF to the City of Avenal, 738 AF to the City of Coalinga, 0 AF to City of Huron P&R @ 22R, 379 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 4L, 1 AF to DFG @ 4L, 0 AF to Pilibos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF Non-Project Water, 52,711 AF to Westlands Water District, and 8,311 AF to Pleasant Valley Pumping Plant.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

**July 2009**

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	614	575	78	70	79	5,345	4,427	3,997	3,752
2	606	566	74	84	74	5,180	4,565	4,167	4,039
3	651	615	62	56	64	4,529	4,005	3,640	3,690
4	688	666	83	76	86	4,349	3,789	3,498	3,441
5	684	626	78	70	79	5,904	5,799	5,524	5,415
6	621	471	46	42	49	4,482	4,166	3,897	3,854
7	724	601	97	88	98	4,906	4,271	3,826	3,639
8	640	608	52	46	54	5,009	4,556	4,116	4,058
9	672	632	81	75	82	5,176	4,590	4,221	4,039
10	659	623	60	55	62	4,819	4,229	3,878	3,806
11	637	597	68	62	70	5,180	4,510	4,169	4,147
12	713	685	91	82	93	5,848	5,772	5,477	5,420
13	651	619	52	46	52	4,639	4,346	4,029	3,948
14	716	689	86	78	89	4,739	4,124	3,751	3,642
15	554	626	62	56	64	4,870	4,512	4,159	4,048
16	673	648	72	67	75	3,993	4,567	4,204	4,037
17	676	635	71	63	70	5,357	5,005	4,659	4,620
18	671	624	74	67	75	5,456	4,853	4,568	4,458
19	500	439	93	84	95	3,758	3,169	2,788	2,705
20	602	554	49	44	51	5,606	5,506	5,173	5,022
21	601	589	83	75	84	5,781	5,255	4,779	4,660
22	700	661	77	71	80	5,012	4,545	4,195	4,045
23	598	562	105	96	103	4,257	5,212	4,818	4,722
24	632	605	90	83	92	5,822	5,592	5,159	5,082
25	661	622	77	69	79	7,488	7,314	6,884	6,954
26	617	592	86	77	86	7,783	7,454	7,094	7,083
27	607	565	77	70	79	4,954	4,494	4,181	4,069
28	672	580	92	83	93	4,770	4,284	3,327	3,860
29	601	482	85	79	87	4,559	4,056	3,703	3,631
30	615	494	71	64	71	4,592	4,080	3,705	3,572
31	619	475	72	65	74	4,638	4,219	3,888	3,817
Total	19,876	18,325	2,344	2,143	2,389	158,800	147,265	135,474	133,273

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Carryover Article 56C	Recovery	Other		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		267,421							
8C	22		172.66	Empire West Side ID TL - A	0	760 3,172  6,649	113 521  1,446	1/ 12 2/ 202  3/ 1,461				
				County of Kings TL - A	772							
				Tulare Lake Basin WSD TL-A	3,374							
				175.18 Dudley Ridge WD - 1	113							
				177.54 Dudley Ridge WD - 1B	521							
				180.64 Tulare Lake Basin WSD - C	0							
				180.65 Dudley Ridge WD - 1A	538							
				182.99 Dudley Ridge WD - 2	2,907							
				183.00 Tulare Lake Basin WSD TL - B	6,649							
				County of Kings TL-B	0							
8D				184.00 Dudley Ridge WD - Paramount	0							
				184.63 Coastal Branch	19,876							
31A				184.78 Dudley Ridge WD - 3	3,251				3/ 3,149	4/ 102		
8D				Dudley Ridge Reach 8D Total:	7,330	0	0	2,618	4,610	102		
				Tulare Lake Basin WSD Total:	10,023	9,821	0	0	0	202		
		Check No. 22	184.82									
9	23			189.69 Kern County Water Agency Lost Hills Water Dist. - 1	10,421				5/ 8,091	6/ 2,330		
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	1,690				5/ 1,690			
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	752				5/ 752			
				196.40 Kern County Water Agency Berrenda Mesa - 2	714				5/ 714			
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	1,770				5/ 1,770			
				KCWA Reach 9 Subtotal:	15,347	0	0	0	13,017	2,330		
		Check No. 23	197.05									
10A	24			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	1,397				184	7/ 1,213		
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	1,378				1,378			
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0				5			
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	5							
				Check No. 24	207.94							
10A	25			209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	3,482				8/ 3,482			
				209.78 Kern National Wildlife Refuge USBR BV-1B	0							
				Kern County Water Agency Buena Vista WSD 1B	1,548				9/ 1,548			
				209.80 KCWA Semitropic WSD	12,111				10/ 12,111			
				KCWA Semitropic WSD Penstocks	0							
				USBR Total:	0	0	0	0	0	0		
				KCWA Reach 10A Subtotal:	19,921	0	0	0	18,708	1,213		

1/ Yuba Purchase Water.

2/ Includes 19 AF of Pool A, 33 AF of Pool B, and 150 AF of Yuba Purchase Water.

3/ Kern Water Bank Recovery.

4/ Includes 12 AF of Pool A, 20 AF of Pool B, and 70 AF of Yuba Water Purchase.

5/ Pump Recovery.

6/ Tuare Lake Basin Table A sent to Lost Hills WD, same land owner transfer.

7/ Yuba Purchase Water.

8/ Includes 1,477 AF of Pump Recovery and 2,005 AF of Recovery that was pumped in and stored in O'Neill.

9/ Recovery of water that was pumped in and stored in O'Neill.

10/ Includes 68 AF of Pump Recovery and 12,043 AF of Recovery that was pumped in and stored in O'Neill.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

**July 2009**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			Table A	USBR	Carryover Article 56C	Recovery	Other			
	No.	Structure											
11B	25		210.75	Kern County Water Agency Belridge - 2	0				2/ 778				
			214.11	Kern County Water Agency Belridge - 3	778								
			216.62	Kern County Water Agency Belridge - 4	0								
			217.13	Kern County Water Agency Belridge - 5A-C	17,187				2/ 17,187				
				Kern County Water Agency Belridge - 5D	133								
		Check No. 25	217.79						2/ 133				
				KCWA Reach 11B Subtotal:	18,098	0	0	0	18,098	0			
12D	26		219.58	Kern County Water Agency Belridge - 6	0				2/ 557				
				Kern County Water Agency West Kern - 3	557								
		Check No. 26	224.92										
12E	27		230.37	Kern County Water Agency Buena Vista - 6	8,411				3,471	2/ 4,940			
		Check No. 27	231.73										
	28		235.75	Kern County Water Agency Buena Vista - 2	13,514				13,514				
				Kern County WA CVC	0								
				DRWD CVC	0								
				Tulare Co.	0								
				Lower Tule River	0								
				Fresno Co.	0								
				Pixley ID	0								
				Hacienda DWR Wells	0								
	Check No. 28	238.11											
				1/ Arvin Edison Total:	0	0	0	0	0	0			
				Reach 12E Subtotal:	21,925	0	0	16,985	4,940	0			
13B	29		238.19	Kern Water Bank Inflow	0				892				
			Kern Water Bank Outflow	0									
			241.02	Kern River Intertie (inflow)	0								
			242.85	KCWA Buena Vista WSD - 7	0								
			243.09	KCWA Buena Vista WSD - 5	892								
		Check No. 29	244.54	Kern County Water Agency Buena Vista - 3	1,033								
				Kern County Water Agency Buena Vista - 4	216				13	3/ 203			
		Buena Vista Pumping Plant	249.85										
			250.99			158,800							
				KCWA Reach 13B Subtotal:	2,141	0	0	1,938	0	203			
14A	31		254.47	Kern County Water Agency West Kern - 2	0				4/ 112				
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	459								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Recovery of water that was pumped in and stored in O'Neill.

3/ Pool A.

4/ Pump Recovery.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile		Table A	USBR	Carryover Article 56C	Recovery
	No.	Structure								
14A	31	Check No. 31	256.14				1,020			
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	1,020					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	2,270		2,270			
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	3,749		3,637	0	0	112
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	6,006		6,006			
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	1,071					
	Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	3,845		3,845			
			271.27							
				Reach 14B Total:	10,922		10,922	0	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	2,831		2,831			
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,144					
			277.30	Kern County Water Agency Arvin-Edison WSD	0		3,975			
				Reach 14C Total:	3,975					
	Teerink Pumping Plant	278.13			147,265					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	975		975			
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	5,342					
				Reach 15A Total:	6,317		6,317			
	Chrismar Pumping Plant	280.36			135,474					
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0		42			
			Check No. 37	283.95						
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	42		100			
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	100					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
	Check No. 38	287.09								
16A	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	192		192			
			Check No. 39	290.21						
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,807		1,807			
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	616					
				Kern County Water Agency Tehachapi Cummings CWD	1,100					
				KCWA Reach 16A Subtotal:	3,857					
17E	Edmonston Pumping Plant	293.45			133,273					

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Carryover Article 56C	Recovery	Other		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		19,876	16,295	1/ 468					
		Las Perillas Pumping Plant	1.16		19,876							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		18,325							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
			13.30	Kern County Water Agency Berrenda Mesa - 3	0							
	C-6		14.83	Kern County Water Agency Berrenda Mesa - 1	16,763							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		2,344							
				KCWA Reach 31A Subtotal:	16,763	16,295	0	0	0	468		
				KCWA Total:	123,572	45,003	0	18,923	55,432	4,214		
33A	C-7	Bluestone Pumping Plant	19.05		2,143	729	2/ 1,218					
	C-8	Polonio Pass Pumping Plant	26.54		2,389							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,947							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	410	410						
		Energy Dissipater	78.12									
		Lopez T.O.	85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	2,357	1,139	0	0	0	1,218		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		
		Tank Site 5	115.42									

1/ 2009 Drought Water Bank.

2/ Includes 1,193 AF of San Luis Obispo Table A Transfer, 9 AF of Pool A, <sup>167</sup> AF of Pool B.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

July 2009

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Bypass Through Plant	Tehachapi Afterbay Bypass	Generation	Leakage	Bypass Flume						
1	1,481	1,531	0	0	4,045	1,645	2,245	0	0	2,368	2,055	0	0	2,123	72	58	28
2	1,318	1,534	0	0	4,569	1,129	2,583	0	0	2,375	2,042	0	0	2,284	65	50	22
3	1,315	1,533	0	0	2,266	1,130	2,270	0	0	1,870	1,965	0	0	2,419	57	44	21
4	1,157	1,535	0	0	2,408	1,782	2,243	0	0	2,008	1,938	0	0	2,097	57	44	21
5	2,980	1,538	0	0	2,029	1,875	2,488	0	0	2,138	2,051	0	0	2,215	58	51	21
6	1,451	1,531	0	0	2,836	1,663	2,547	0	0	2,091	1,991	0	0	2,229	48	46	22
7	1,323	1,534	0	0	1,887	0	2,294	0	0	2,056	1,939	0	0	2,230	48	42	29
8	1,468	1,534	0	0	3,436	0	2,407	0	0	2,198	2,154	0	0	1,994	46	42	27
9	1,151	1,536	0	0	2,234	963	2,823	0	0	2,364	2,413	0	0	1,957	53	42	21
10	1,530	1,538	0	0	2,522	0	1,959	0	0	2,042	1,782	0	0	2,020	55	42	21
11	1,481	1,540	0	0	699	0	2,542	0	0	1,832	1,786	0	0	1,972	57	42	21
12	2,229	1,537	0	0	149	0	2,760	0	0	2,716	2,685	0	0	1,812	62	46	19
13	1,590	1,534	0	0	1,949	0	2,419	0	0	1,977	1,689	0	0	1,955	72	58	21
14	1,320	1,535	0	0	3,253	575	2,558	0	0	2,064	1,986	0	0	2,054	71	57	28
15	1,480	1,533	0	0	3,282	1,212	2,376	0	0	2,279	2,120	0	0	2,128	72	58	27
16	1,318	1,539	0	198	4,575	1,299	2,453	0	0	2,396	2,197	0	0	2,094	71	58	22
17	2,119	1,539	0	793	4,456	1,232	2,550	0	0	1,954	1,784	0	0	1,977	72	58	22
18	2,017	1,542	0	992	2,746	1,597	2,413	0	0	2,010	2,041	0	0	1,832	73	55	23
19	3,136	1,542	0	990	1,457	2,409	3,013	0	0	2,876	2,681	0	0	1,965	74	58	23
20	2,385	1,538	0	992	3,580	1,590	2,587	0	207	2,255	2,025	0	0	2,386	70	47	21
21	2,277	1,539	0	992	3,519	1,108	2,389	0	0	2,063	1,893	0	0	2,103	25	21	16
22	2,119	1,540	0	992	4,488	1,530	2,236	0	0	1,767	1,703	0	0	2,078	60	33	27
23	2,380	1,539	0	992	4,877	2,153	2,047	0	0	1,907	1,866	0	0	2,206	64	58	22
24	2,384	1,541	0	992	5,909	1,793	2,782	0	165	2,380	2,271	0	0	2,180	64	58	22
25	3,569	1,539	0	992	6,063	2,136	2,930	0	626	3,014	3,005	0	0	2,332	65	58	23
26	3,003	1,532	0	992	2,346	2,882	3,036	0	579	3,154	2,924	0	0	2,200	69	57	23
27	1,297	1,533	0	331	2,544	2,638	2,421	0	165	2,532	2,219	0	0	2,166	71	48	22
28	1,160	1,534	0	0	3,182	2,251	2,408	0	0	2,345	2,331	0	0	2,096	59	42	28
29	1,429	1,534	0	0	3,235	1,302	1,983	0	0	1,969	1,987	0	0	2,210	69	54	28
30	1,365	1,535	0	0	2,780	2,483	2,270	0	0	1,900	1,826	0	0	2,048	73	58	21
31	1,423	1,534	0	0	4,250	2,040	2,311	0	0	2,043	1,881	0	0	2,098	66	58	22
Total	56,655	47,623	0	10,248	97,571	42,417	76,343	0	1,742	68,943	65,230	0	0	65,460	1,938	1,543	714

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		To Piru Creek				
				Castaic Powerplant Pumpback 1/	Warne Power-plant		Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.	
Jun 30	2575.37	166,528											
1	2574.73	165,714	-814	1,645	1,531	0	11	4,045	0	18	0	62	
2	2573.66	164,359	-1,355	1,129	1,534	0	10	4,569	0	18	0	559	
3	2574.10	164,915	556	1,130	1,533	0	9	2,266	0	16	0	166	
4	2574.85	165,866	951	1,782	1,535	0	9	2,408	0	16	0	49	
5	2575.97	167,294	1,428	1,875	1,538	0	9	2,029	0	16	0	51	
6	2576.49	167,959	665	1,663	1,531	0	8	2,836	0	16	0	315	
7	2576.08	167,434	-525	0	1,534	0	8	1,887	1	16	0	-163	
8	2574.78	165,777	-1,657	0	1,534	0	9	3,436	0	16	0	252	
9	2574.90	165,930	153	963	1,536	0	8	2,234	0	16	0	-104	
10	2573.84	164,586	-1,344	0	1,538	0	8	2,522	0	16	0	-352	
11	2574.69	165,663	1,077	0	1,540	0	8	699	0	16	0	244	
12	2575.84	167,127	1,464	0	1,537	0	7	149	0	15	0	84	
13	2575.31	166,451	-676	0	1,534	0	7	1,949	1	15	0	-252	
14	2575.43	165,333	-1,118	575	1,535	0	7	3,253	0	15	0	33	
15	2573.89	164,649	-684	1,212	1,533	0	6	3,282	0	15	0	-138	
16	2572.42	162,797	-1,852	1,299	1,539	198	6	4,575	0	15	0	-304	
17	2571.54	161,695	-1,102	1,232	1,539	793	6	4,456	0	15	0	-201	
18	2572.54	162,948	1,253	1,597	1,542	992	5	2,746	0	15	0	-122	
19	2575.43	166,604	3,656	2,409	1,542	990	5	1,457	0	14	0	181	
20	2575.52	166,719	115	1,590	1,538	992	5	3,580	0	14	0	-416	
21	2575.47	166,655	-64	1,108	1,539	992	4	3,519	1	14	0	-173	
22	2574.24	165,092	-1,563	1,530	1,540	992	4	4,488	0	14	0	-1,127	
23	2573.66	164,359	-733	2,153	1,539	992	5	4,877	0	12	0	-533	
24	2571.92	162,170	-2,189	1,793	1,541	992	5	5,909	0	12	0	-599	
25	2570.30	160,150	-2,020	2,136	1,539	992	4	6,063	0	12	0	-616	
26	2572.63	163,061	2,911	2,882	1,532	992	4	2,346	0	12	0	-141	
27	2574.34	165,219	2,158	2,638	1,533	331	4	2,544	0	12	0	208	
28	2575.11	166,197	978	2,251	1,534	0	4	3,182	1	12	0	384	
29	2574.73	165,714	-483	1,302	1,534	0	4	3,235	0	12	0	-76	
30	2575.66	166,898	1,184	2,483	1,535	0	5	2,780	0	12	0	-47	
31	2575.04	166,108	-790	2,040	1,534	0	5	4,250	0	12	0	-107	
Total				-420	42,417	47,623	10,248	199	97,571	4	449	0	-2,883

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Castaic Powerplant Pumpback 1/	Outflow		Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural		To Castaic Lake			
				Natural	Project 1/		Natural	Project		
Jun 30	1513.81	20,680								
1	1510.92	19,540	-1,140	4,045	0	1,645	0	3,539	-1	
2	1510.24	19,277	-263	4,569	0	1,129	0	3,705	2	
3	1509.85	19,127	-150	2,266	0	1,130	0	1,286	0	
4	1511.00	19,571	444	2,408	0	1,782	0	0	-182	
5	1511.50	19,766	195	2,029	0	1,875	0	0	41	
6	1513.52	20,564	798	2,836	0	1,663	0	0	-375	
7	1518.22	22,488	1,924	1,887	0	0	0	0	37	
8	1519.48	23,019	531	3,436	0	0	0	2,904	-1	
9	1512.02	19,970	-3,049	2,234	0	963	0	4,322	2	
10	1511.02	19,579	-391	2,522	0	0	0	2,911	-2	
11	1512.58	20,191	612	699	0	0	0	0	-87	
12	1512.93	20,329	138	149	0	0	0	0	-11	
13	1517.84	22,329	2,000	1,949	0	0	0	0	51	
14	1517.97	22,382	53	3,253	0	575	0	2,653	28	
15	1512.74	20,254	-2,128	3,282	0	1,212	0	4,169	-29	
16	1512.34	20,096	-158	4,575	0	1,299	0	3,435	1	
17	1512.12	20,009	-87	4,456	0	1,232	0	3,311	0	
18	1514.87	21,107	1,098	2,746	0	1,597	0	0	-51	
19	1512.50	20,159	-948	1,457	0	2,409	0	0	4	
20	1517.39	22,142	1,983	3,580	0	1,590	0	0	-7	
21	1516.34	21,708	-434	3,519	0	1,108	0	2,845	0	
22	1513.82	20,684	-1,024	4,488	0	1,530	0	3,982	0	
23	1512.61	20,202	-482	4,877	0	2,153	0	3,205	-1	
24	1514.46	20,942	740	5,909	0	1,793	0	3,377	1	
25	1519.38	22,977	2,035	6,063	0	2,136	0	1,891	-1	
26	1518.41	22,568	-409	2,346	0	2,882	0	0	127	
27	1517.91	22,359	-209	2,544	0	2,638	0	0	-115	
28	1512.52	20,167	-2,192	3,182	0	2,251	0	3,122	-1	
29	1513.55	20,576	409	3,235	0	1,302	0	1,528	4	
30	1514.35	20,897	321	2,780	0	2,483	0	0	24	
31	1513.85	20,696	-201	4,250	0	2,040	0	2,412	1	
Total				16	97,571	0	42,417	0	54,597	
									-541	

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries		
				Natural	Project				
Jun 30	1480.58	252,006							
1	1481.29	253,394	1,388	0	3,539	0	2,130	10	
2	1481.85	254,484	1,090	0	3,705	0	2,036	0	
3	1481.46	253,724	-760	0	1,286	0	1,974	0	
4	1480.52	251,900	-1,824	0	0	0	2,049	0	
5	1479.45	249,832	-2,068	0	0	0	1,910	0	
6	1478.46	247,926	-1,906	0	0	0	1,868	0	
7	1477.38	245,857	-2,069	0	0	0	2,103	0	
8	1477.85	246,756	899	0	2,904	0	2,066	0	
9	1479.01	248,984	2,228	0	4,322	0	2,071	0	
10	1479.30	249,542	558	0	2,911	0	2,076	0	
11	1478.22	247,465	-2,077	0	0	0	2,088	0	
12	1477.18	245,474	-1,991	0	0	0	2,067	0	
13	1476.06	243,340	-2,134	0	0	0	2,157	1	
14	1476.25	243,701	361	0	2,653	0	2,316	9	
15	1477.21	245,532	1,831	0	4,169	0	2,334	9	
16	1477.81	246,680	1,148	0	3,435	0	2,416	10	
17	1478.18	247,389	709	0	3,311	0	2,581	10	
18	1476.94	245,016	-2,373	0	0	0	2,543	10	
19	1475.70	242,656	-2,360	0	0	0	2,377	10	
20	1474.38	240,157	-2,499	0	0	0	2,410	10	
21	1474.65	240,667	510	0	2,845	0	2,517	10	
22	1475.53	242,333	1,666	0	3,982	0	2,408	10	
23	1476.05	243,321	988	0	3,205	0	2,407	10	
24	1476.65	244,463	1,142	0	3,377	0	2,324	10	
25	1476.46	244,101	-362	0	1,891	0	2,204	10	
26	1475.38	242,049	-2,052	0	0	0	2,483	10	
27	1474.21	239,836	-2,213	0	0	0	2,103	10	
28	1474.41	240,214	378	0	3,122	0	2,307	10	
29	1474.02	239,478	-736	0	1,528	0	2,213	10	
30	1472.90	237,371	-2,107	0	0	0	2,126	10	
31	1472.97	237,503	132	0	2,412	0	2,309	10	
Total			-14,503	0	54,597	0	68,973	189	
								62	

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Recovery	Local	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		56,655							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(10,248 AF of flow through Gorman Creek Imp. Channel)		47,623						
29H	W3	Pyramid Lake		USFS		4						
				Pyramid Recreation (T300)								
				United WA (T300)		0						
		Pyramid Dam	17.10	California State Park								
29J	W4	Castaic Power Plant	25.82	Piru Fish (T300)		0						
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		24						
				Castaic Lake Recreation (T301)								
		Castaic Dam	31.47			24						
		Castaic Lake Outlet		MWDSC 78" & 132" (T302)		63,311	37,168	3/ 953	4/ 25,190	1,755	5/ 1,158	
				Castaic Lake WA 18", 24" & 54" (T303)		2,913						
				Castaic Lake WA Rio Vista T.P. (T304)		2,725						
				MWD-Ventura Co. WPD (T302)		0						
				Releases to Lagoon		189						
				Reach 30 Subtotal:	68,973	37,168	24	953	0	3,380	27,448	
W6		Castaic Lagoon		California State Park Recreation to Lagoon (T353)		0						
		Castaic Lagoon Outlet	31.9			186						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

3/ Includes 870 AF of Kern-Delta Recovery and 83 AF of Arvin Edison Recovery.

4/ Includes 388 AF of Pool A, 654 AF of Pool B, 922 AF via Article 55 from Delta Wetlands Properties, 1,167 AF of Dry Purchase 2, 1,167 AF of Dry Purchase 3, 10,840 AF of Dry Purchase 4, and 10,052 AF of Drought Water Bank.

5/ Includes 19 AF of Pool A, 33 AF of Pool B, 65 AF of Dry Purchase 2, 145 AF of Dry Purchase 3, and 896 AF of Dry Purchase 4.

6/ General Conveyance of non project water Article 55 from Kern County WA.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
Jun 30	3351.88	71,958												
1	3351.71	71,796	-162	2,055	0	0	6	0	2,123	0	0	-88	15	
2	3351.57	71,663	-133	2,042	0	0	6	0	2,284	0	0	115	15	
3	3351.04	71,159	-504	1,965	0	0	5	1	2,419	0	1	-43	15	
4	3350.89	71,017	-142	1,938	0	0	6	0	2,097	0	0	23	15	
5	3350.75	70,884	-133	2,051	0	0	7	0	2,215	0	0	38	15	
6	3350.39	70,544	-340	1,991	0	0	5	1	2,229	0	1	-95	15	
7	3350.00	70,176	-368	1,939	0	0	6	0	2,230	0	0	-71	15	
8	3350.14	70,308	132	2,154	0	0	5	1	1,994	0	0	-22	15	
9	3350.56	70,705	397	2,413	0	0	5	1	1,957	0	1	-52	15	
10	3350.19	70,355	-350	1,782	0	0	6	0	2,020	0	0	-106	15	
11	3349.97	70,148	-207	1,786	0	0	6	0	1,972	0	0	-15	15	
12	3350.92	71,045	897	2,685	0	0	5	1	1,812	0	1	31	15	
13	3350.56	70,705	-340	1,689	0	0	6	0	1,955	0	0	-68	15	
14	3350.56	70,705	0	1,986	0	0	6	0	2,054	0	0	74	15	
15	3350.47	70,620	-85	2,120	0	0	5	1	2,128	0	1	-70	15	
16	3350.47	70,620	0	2,197	0	0	6	0	2,094	0	0	-97	15	
17	3350.16	70,327	-293	1,784	0	0	5	1	1,977	0	0	-94	15	
18	3350.42	70,572	245	2,041	0	0	5	1	1,832	0	1	43	15	
19	3351.23	71,340	768	2,681	0	0	7	0	1,965	0	0	59	15	
20	3350.73	70,865	-475	2,025	0	0	6	0	2,386	0	0	-108	15	
21	3350.45	70,601	-264	1,893	0	0	6	1	2,103	0	1	-46	15	
22	3350.05	70,223	-378	1,703	0	0	5	1	2,078	0	0	3	15	
23	3349.60	69,800	-423	1,866	0	0	6	0	2,206	0	0	-77	15	
24	3349.72	69,913	113	2,271	0	0	5	1	2,180	0	1	29	15	
25	3350.47	70,620	707	3,005	0	0	7	0	2,332	0	0	41	15	
26	3351.23	71,340	720	2,924	0	0	7	0	2,200	0	0	3	15	
27	3351.18	71,292	-48	2,219	0	0	6	1	2,166	0	1	-93	15	
28	3351.34	71,444	152	2,331	0	0	6	0	2,096	0	0	-77	15	
29	3351.18	71,292	-152	1,987	0	0	6	0	2,210	0	0	77	15	
30	3350.84	70,970	-322	1,826	0	0	7	1	2,048	0	0	-92	15	
31	3350.53	70,676	-294	1,881	0	0	6	0	2,098	0	0	-71	15	
<b>Total</b>				-1,282	65,230	0	0	180	13	65,460	0	9	-850	465

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**July 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Jun 30	1556.48	62,670				
1	1556.40	62,531	-139		9	
2	1556.29	62,340	-191		9	
3	1556.40	62,531	191		8	
4	1556.29	62,340	-191		8	
5	1556.32	62,392	52		9	
6	1556.32	62,392	0		9	
7	1556.29	62,340	-52		9	
8	1556.35	62,444	104		9	
9	1556.29	62,340	-104		9	
10	1556.32	62,392	52		8	
11	1556.32	62,392	0		9	
12	1556.40	62,531	139		118	
13	1556.40	62,531	0		284	
14	1556.32	62,392	-139		9	
15	1556.40	62,531	139		9	
16	1556.32	62,392	-139		10	
17	1556.24	62,253	-139		10	
18	1556.29	62,340	87		9	
19	1556.32	62,392	52		10	
20	1556.24	62,253	-139		10	
21	1556.29	62,340	87		10	
22	1556.18	62,149	-191		189	
23	1556.15	62,097	-52		79	
24	1556.21	62,201	104		114	
25	1556.15	62,097	-104		113	
26	1556.21	62,201	104		65	
27	1556.26	62,288	87		77	
28	1556.40	62,531	243		9	
29	1556.46	62,635	104		9	
30	1556.54	62,774	139		8	
31	1556.65	62,965	191		33	
<b>Total</b>		295	3,618	1,271	-2,052	

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		No.			Table A	Rec.	Recovery	Local	Article 56C	Other		
	No.	Structure	Mile										
17E	40	Edmonston Pumping Plant	293.45		133,273								
	41		298.65	KCWA Tej.-Cas	Stub								
17F		Check No. 41	303.41										
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0								
		Check No. 42	304.99										
	43	Alamo Powerplant	305.73	(Includes 76,343 AF generation, 0 AF plant bypass, and 1,742 AF Tehachapi bypass)	78,085								
			306.71	AVEK 305th Street West (T287)	0								
			308.05	AVEK 294th Street West (T267)	0								
19	44		309.70										
			311.84	LADWP Connection	0								
			313.50	AVEK 245th Street West (T269)	0								
	45	Check No. 44	314.81										
			314.93	AVEK 235th Street West (T270)	0								
			315.57	AVEK 225th Street West (T271)	0								
	46	Check No. 45	319.74										
			323.19	Antelope Valley-East Kern WA Fairmont (T272)	853								
				Mojave Water Agency Fairmont (T272)	166								
		Check No. 46	323.84		Reach 19 Total:	1,019	166	0	0	0	35	818	
20A	47	Check No. 47	326.77										
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	143							143	
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed								
		Check No. 48	330.82										
	49	Check No. 49	335.93										
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	5,127							5,127	
20B			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	113								
			340.92	AVEK WA-Temp (T387)	0								
		Check No. 50	341.51										
51		342.06	AVEK WA-Temp (T386)	0									
	Check No. 51	342.07											
52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0									
	21		Check No. 52	343.74									
				346.98	Palmdale WD (T276) Temp.								1,803
				348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)								81
53	Check No. 53	348.17											
		349.52	Palmdale WD (T394)	0									
	Check No. 54	350.25											
22A	54	Check No. 55	352.70									81	
	55	Check No. 56	354.76										
	57		354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0								
			354.97	Palmdale WD (T276)	0								
			354.97	Palmdale WD (T391)	0								
22A	58	Check No. 57	356.93									129 100 543	
			357.60	AVEK 95th Street East (T279)	129								
			357.72	AVEK 96th Street East (T280)	100								
			359.76	AVEK East Side Treatment Plant (T281)	543								

1/ Includes 547 AF of General Conveyance of non-project "Nickel" water, 29 AF of Pool A, 48 AF of Pool B, 97 AF of Dry Purchase 2, and 97 AF of Dry Purchase 3.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**July 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			Table A	Rec.	Recovery	Local	Article 56C	Other		
	No.	Structure											
22B	58	Pearblossom Pumping Plant	360.61		68,943								
	59	Check No. 59	366.09										
	60		366.50		AVEK Big Rock Siphon (T368)								
		Check No. 60	373.94										
	61	Check No. 61	379.00										
	62	Check No. 62	384.26										
	63		389.20		Mojave Water Agency White Road 24" & 42" (T282)								
	64	Check No. 64	395.10										
	65	Check No. 65	400.32										
	66		401.10		Mojave Water Agency Morongo 24" & 42" (T284)								
23		Check No. 66	403.41										
		Mojave Siphon	405.58		Las Flores Ranch Exchange								
24		Mojave Siphon Powerplant	405.65										
					65,230								
25		Silverwood Lake	407.65		MWA CS DAM (T288)								
					California State Park Silverwood (T288)								
26A		San Bernardino Intake Tunnel	407.70		Crestline-Lake Arrowhead WA State Project Water (T289)								
					Non-Project Water (T289)								
28G		Devil Canyon Afterbay Control Structures	412.88										
					65,460								
28H		Devil Canyon Afterbay Control Structures	412.88		MWD-Rialto (T292)								
					0								
28J		Lake Perris	442.00		MWD-Rialto (T293)								
					10,356								
		Lake Perris	443.44		Desert Water Agency Transfer (T293)								
					3,136								
		Lake Perris	443.44		Coachella Valley WD Transfer (T293)								
					7,594								
		Lake Perris	443.44		MWD EBX-1 (T290)								
					5,687								
		Lake Perris	443.44		MWD EBX-1 (T291)								
					0								
		Lake Perris	443.44		East Branch Extension								
					5,783								
		Lake Perris	443.44		San Bernardino Valley MWD								
					0								
		Santa Ana Valley Pipeline	425.46										
		Santa Ana Valley Pipeline	433.06		MWD-SC Box Springs (T295)								
					8,416								
		Santa Ana Valley Pipeline	440.05		MWD-SC Perris Bypass Pipeline (T296)								
					20,665								
		Lake Perris	442.00		MWD-SC (T297)								
					143								
		Lake Perris	443.44		MWD-SC 54" & 78" (T299)								
					988								
		Lake Perris	443.44		Calif. State Park								
					Lake Perris Parks & Rec. (T298)								
		Lake Perris	443.44		MWD Total:								
					109,566								
					83,423	0	953	0	0	0	25,190		

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ Includes 10 AF of Pool A, 17 AF of Pool B, 30 AF of Dry Purchase 2, 30 AF of Dry Purchase 3, 270 AF of Dry Purchase 4, and 175 AF of Drought Water Bank.

3/ Includes 25 AF of Pool A, 41 AF of Pool B, 74 AF of Dry Purchase 2, 74 AF of Dry Purchase 3, and 651 AF of Dry Purchase 4.

4/ Includes 2,490 AF to San Gabriel Valley MWD, 387 AF to San Bernardino Valley MWD, and 460 AF to San Gorgonio Pass WA.

5/ Includes 148 AF of Dry Purchase 2, 97 AF of Dry Purchase 3, 1,709 AF of Dry Purchase 4, and 492 AF of Drought Water Bank.

**Table 32. Water Quality At Selected SWP Locations**

July 2009

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	38	79	74	55	59	64	68	61	85
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.003	0.002	0.002	0.003	0.003	0.002	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2
Bromide	mg/l	<0.01	0.03	0.18	0.10	0.08	0.09	0.21	0.10	0.35
Calcium	mg/l	9	15	24	13	15	16	19	15	27
Chloride	mg/l as C	1	18	60	27	27	30	37	28	89
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	0	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Fluoride	mg/l	<0.1	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	38.000	88.000	116.000	68.000	74.000	81.000	86.000	70.000	125.000
Iron	mg/l	0	0	0	0	0	0	<0.005	0	<0.005
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	12.000	14.000	8.000	9.000	10.000	9.000	8.000	14.000
Manganese	mg/l	<0.005	0.015	<0.005	0.016	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	0	0	0	0	0	0	0	0	0
Organic Carbon, Dissolved	mg/l	NR	3.900	3.000	2.400	2.500	3.100	3.400	2.700	3.900
Organic Carbon, Total	mg/l as N	NR	4.40	3.10	2.50	2.60	3.20	3.20	3.50	4.40
Phosphate-Ortho	mg/l as P	<0.01	0.19	0.12	0.05	0.07	0.10	NR	0.10	0.04
Phosphorus-Total	mg/l	0.01	0.27	0.16	0.08	0.08	0.13	0.10	0.15	0.08
Selenium	mg/l	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Sodium	mg/l	3	20	44	22	22	25	32	24	67
Specific Conductance	µS/cm	82	252	433	215	236	257	388	233	552
Sulfate	mg/l	2	18	43	12	14	20	32	19	52
Total Dissolved Solids	mg/l	54	151	245	129	137	150	230	152	325
Turbidity	NTU	3	47	15	7	5	7	12	18	4
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

July 2009

Date	Antioch Tides (feet above mean sea level)		Flow In CFS				Electrical Conductivity in millisiemens/cm								Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
38	1	6.65	4.55	4,535	7,825	11,217	1.39	5.96	0.42	0.50	0.35	0.29	0.25	0.40	0.35	21
	2	6.67	4.65	4,304	7,616	12,408	0.00	6.10	0.50	0.52	0.41	0.31	0.23	0.41	0.30	21
	3	0.00	0.00	4,018	7,462	13,246	0.00	6.00	0.48	0.53	0.46	0.32	0.22	0.41	0.29	24
	4	0.00	0.00	4,152	7,250	13,474	0.00	6.63	0.56	0.54	0.54	0.34	0.24	0.38	0.28	24
	5	0.00	0.00	4,438	7,062	13,730	0.00	6.69	0.68	0.55	0.55	0.36	0.23	0.38	0.28	23
	6	6.64	4.48	5,406	6,901	14,287	0.00	6.14	0.55	0.55	0.52	0.38	0.23	0.40	0.29	21
	7	6.50	4.43	5,694	6,746	14,787	1.66	5.64	0.42	0.53	0.52	0.39	0.00	0.40	0.30	21
	8	6.34	4.29	5,516	6,511	14,722	1.61	5.32	0.41	0.50	0.52	0.41	0.20	0.39	0.28	25
	9	6.17	4.22	5,276	6,314	14,994	1.53	5.21	0.34	0.47	0.53	0.42	0.19	0.40	0.29	25
	10	5.95	4.12	5,380	6,130	15,096	1.47	5.04	0.29	0.45	0.55	0.44	0.19	0.39	0.29	26
	11	5.52	4.00	5,434	5,964	15,135	1.34	4.82	0.23	0.43	0.55	0.46	0.18	0.40	0.30	28
	12	5.19	3.90	5,741	5,848	15,455	1.29	4.65	0.20	0.42	0.54	0.47	0.18	0.40	0.30	27
	13	5.33	3.74	5,956	5,778	15,530	1.20	4.28	0.19	0.40	0.52	0.49	0.18	0.44	0.30	33
	14	5.71	3.81	5,990	5,734	15,644	1.32	4.78	0.19	0.39	0.55	0.51	0.21	0.45	0.27	33
	15	6.11	4.12	7,611	5,747	15,667	1.60	6.24	0.25	0.38	0.62	0.53	0.24	0.46	0.24	34
	16	6.33	4.25	7,250	5,774	15,650	1.80	6.85	0.24	0.36	0.66	0.55	0.23	0.47	0.24	37
	17	6.67	4.45	5,947	5,776	15,425	2.00	7.09	0.35	0.35	0.71	0.56	0.23	0.48	0.25	39
	18	6.94	4.61	4,113	5,744	10,520	2.27	7.85	0.52	0.35	0.80	0.58	0.00	0.43	0.25	39
	19	6.95	4.66	3,930	5,712	10,404	2.65	8.53	0.72	0.35	0.89	0.61	0.00	0.40	0.27	41
	20	7.18	4.83	3,889	5,687	10,334	3.14	9.88	1.00	0.38	1.00	0.64	0.25	0.38	0.27	43
	21	7.16	4.59	3,978	5,641	10,409	3.25	9.84	0.99	0.42	1.02	0.68	0.25	0.34	0.27	50
	22	6.84	4.41	4,409	5,590	10,644	2.93	9.06	0.82	0.45	0.98	0.71	0.27	0.37	0.29	55
	23	6.67	4.47	3,353	5,514	10,000	3.00	8.17	0.82	0.49	1.00	0.74	0.29	0.38	0.30	59
	24	6.48	4.45	5,519	5,520	9,960	3.14	9.73	0.90	0.53	1.05	0.78	0.32	0.40	0.31	61
	25	6.04	4.37	3,319	5,400	8,439	2.69	8.87	0.76	0.57	1.03	0.81	0.32	0.41	0.31	66
	26	5.83	4.24	5,060	5,323	9,627	2.67	8.29	0.58	0.60	1.00	0.85	0.33	0.40	0.32	67
	27	6.10	4.27	5,910	5,258	10,152	2.72	8.29	0.53	0.62	1.00	0.88	0.34	0.40	0.33	82
	28	6.42	4.42	5,143	5,171	10,009	2.86	9.04	0.66	0.65	1.06	0.92	0.37	0.35	0.35	91
	29	6.61	4.62	3,260	5,054	9,946	3.07	9.53	0.75	0.69	1.17	0.96	0.00	0.35	0.35	97
	30	6.55	4.61	3,967	4,950	10,062	3.18	9.69	0.75	0.73	1.22	1.00	0.36	0.37	0.37	102
	31	6.59	4.65	6,866	5,028	10,422	3.16	9.34	0.71	0.75	1.26	1.03	0.38	0.38	0.39	109

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

July 2009

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 17, 2009	Metolachlor	0.10
California Aqueduct At Banks Pumping Plant	June 16, 2009	Metolachlor Simazine	0.20 0.02
O'Niell Forebay Outlet Check 13	June 17, 2009	Simazine	0.02
Delta Mendota Canal At McCabe Road	June 17, 2009	Metolachlor Simazine	0.20 0.02
California Aqueduct Near Kettleman City (Check 21)	June 16, 2009	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	June 17, 2009	Simazine	0.02
California Aqueduct at Tehachapi Afterbay (Check 41)	March 17, 2009	Diuron	1.65
California Aqueduct At Devil Canyon Headworks	June 17, 2009	Simazine	0.06

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

July 2009

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	14,805,846	0	28,836	28,026	2,712,880	2,712,880	456,422	459
2	14,272,104	0	32,609	28,760	2,804,064	2,804,064	424,157	465
3	14,114,133	0	33,030	31,654	3,337,104	3,337,104	446,872	485
4	9,790,352	11	29,683	31,483	3,343,904	3,343,904	433,171	498
5	12,643,081	11	26,010	28,629	3,348,232	3,348,232	439,653	490
6	12,066,901	0	25,423	28,212	3,694,040	3,694,040	449,570	490
7	13,118,226	0	39,079	41,137	3,861,736	3,861,736	437,451	488
8	12,379,334	0	42,116	45,016	3,764,344	3,764,344	452,333	494
9	14,170,046	0	36,341	42,180	3,979,120	3,707,120	450,868	937
10	11,751,223	0	39,228	41,288	4,059,392	3,787,392	447,660	16,282
11	8,085,847	0	36,890	44,746	4,050,136	3,778,136	438,078	18,099
12	10,840,676	11	31,749	44,736	4,024,144	3,752,144	435,475	18,112
13	12,715,076	0	29,641	42,580	3,701,328	3,429,328	252,870	9,302
14	13,479,202	0	34,421	45,875	3,974,984	3,702,984	340,387	18,119
15	14,455,287	0	36,056	46,081	3,195,336	3,195,336	329,517	17,468
16	14,884,276	0	40,214	44,657	2,798,352	2,798,352	181,941	1,135
17	11,958,166	0	38,984	44,290	3,097,128	3,097,128	268,618	520
18	10,602,152	0	36,038	44,076	3,913,552	3,529,552	215,327	515
19	7,836,983	0	30,659	42,555	4,073,192	3,689,192	215,293	516
20	10,508,630	0	30,651	42,594	3,774,448	3,390,448	215,402	496
21	10,955,362	0	32,549	45,573	3,794,304	3,410,304	201,503	461
22	7,146,447	11	31,042	44,375	4,081,640	3,697,640	145,545	462
23	11,358,798	0	30,431	44,371	4,058,456	3,402,456	164,907	459
24	11,554,664	0	36,310	45,293	2,810,976	2,154,976	327,952	449
25	5,427,642	0	33,037	42,561	2,826,144	2,170,144	383,357	475
26	8,294,506	0	35,879	43,195	2,813,720	2,157,720	413,001	475
27	12,759,659	0	35,504	46,986	2,699,664	2,699,664	452,014	480
28	11,341,077	0	25,703	40,830	2,989,712	2,989,712	484,108	472
29	8,847,652	0	31,983	42,254	4,101,464	4,101,464	508,750	469
30	9,182,107	0	30,110	42,670	3,960,704	3,144,704	521,381	466
31	7,571,333	0	37,163	44,453	2,585,680	1,769,680	515,407	469
Total	348,916,788	44	1,037,369	1,271,136	108,229,880	100,421,880	11,448,990	110,507

**Table 36. San Luis Field Division Energy Data**

(in kWh)

July 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,780,966	1,284,966	683,166	203,166	121	121
2	1,719,511	1,223,511	0	0	20,647	20,647
3	1,604,525	1,108,525	0	0	20,284	20,284
4	1,468,207	964,207	0	0	612,172	420,172
5	1,678,518	1,174,518	0	0	613,701	421,701
6	1,330,754	786,754	0	0	167,882	17,882
7	1,561,568	1,065,568	0	0	412,170	412,170
8	1,539,485	1,187,485	0	0	1,192,400	592,400
9	1,657,397	1,305,397	0	0	618,156	18,156
10	1,533,520	1,181,520	0	0	614,152	14,152
11	1,585,379	1,233,379	0	0	613,888	13,888
12	1,579,165	1,219,165	0	0	613,426	613,426
13	1,327,518	975,518	0	0	1,092,432	1,092,432
14	1,401,364	1,049,364	0	0	1,203,059	1,203,059
15	1,477,222	941,222	0	0	609,774	609,774
16	1,570,708	1,034,708	88,176	88,176	259,523	259,523
17	1,793,742	1,257,742	0	0	17,424	17,424
18	1,652,934	1,116,934	0	0	18,480	18,480
19	1,875,189	1,347,189	0	0	607,695	31,695
20	1,562,387	1,026,387	0	0	604,307	604,307
21	1,826,542	1,290,542	0	0	18,205	18,205
22	1,677,655	1,677,655	0	0	206,668	14,668
23	1,958,440	1,958,440	0	0	602,547	458,547
24	1,855,158	1,855,158	0	0	16,995	16,995
25	2,218,370	2,218,370	88,088	88,088	10,747	10,747
26	1,996,802	1,996,802	354,816	354,816	0	0
27	1,571,596	1,571,596	542,399	542,399	0	0
28	1,700,912	1,700,912	337,480	337,480	209	209
29	1,628,344	1,060,344	0	0	802,296	802,296
30	1,550,767	982,767	0	0	1,350,283	1,350,283
31	1,520,993	952,993	0	0	411,796	411,796
Total	51,205,638	39,749,638	2,094,125	1,614,125	13,331,439	9,485,439

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

(in kWh)

July 2009

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	47,881	117,013	55,201	50,442	55,843	1,289,820	1,162,851	2,416,480	8,420,193
2	48,518	114,470	52,625	49,016	53,638	1,241,540	1,198,494	2,512,488	9,056,448
3	51,820	124,892	44,240	41,188	45,271	1,098,768	1,050,168	2,195,677	8,098,326
4	54,047	130,045	58,448	54,930	59,787	1,057,076	994,331	2,115,344	7,723,215
5	54,270	129,303	54,958	51,043	56,699	1,436,772	1,514,391	3,331,075	12,282,462
6	48,189	117,006	33,073	31,592	34,839	1,082,504	1,089,505	2,352,834	8,639,622
7	57,068	136,715	67,717	62,999	67,973	1,183,196	1,114,878	2,308,372	8,172,009
8	49,311	121,941	37,640	34,285	38,411	1,203,998	1,176,675	2,484,702	9,090,630
9	52,261	126,089	57,143	54,062	57,358	1,246,165	1,203,139	2,550,427	9,046,944
10	50,802	124,613	43,346	40,544	44,048	1,165,486	1,109,966	2,347,708	8,521,578
11	49,380	120,184	48,713	45,586	49,312	1,244,156	1,180,483	2,523,774	9,285,084
12	56,710	133,048	64,114	59,692	65,030	1,399,849	1,512,275	3,303,729	12,102,507
13	51,607	122,461	37,505	34,351	37,120	1,118,271	1,138,492	2,415,028	8,830,026
14	57,523	133,994	60,295	56,279	61,459	1,138,302	1,077,993	2,256,166	8,146,035
15	52,514	124,788	44,615	41,246	45,007	1,182,999	1,178,108	2,510,376	9,029,151
16	53,106	128,497	50,975	48,396	52,988	1,267,543	1,194,874	2,543,057	9,048,618
17	54,682	126,285	49,973	45,821	49,042	1,299,829	1,306,513	2,824,349	10,332,333
18	52,227	124,388	52,266	48,540	52,780	1,321,290	1,266,535	2,760,131	9,979,146
19	51,660	120,058	65,265	59,974	65,816	1,782,243	1,932,053	4,357,518	16,301,007
20	47,795	113,256	35,822	32,532	36,730	1,358,148	1,440,588	3,134,736	11,225,979
21	47,771	116,262	60,247	55,219	60,196	1,413,831	1,373,733	2,914,780	10,416,168
22	55,519	129,467	55,493	51,327	56,401	1,260,591	1,189,165	2,554,090	9,067,599
23	47,936	117,531	72,710	68,073	71,505	1,344,358	1,362,753	2,904,165	10,586,700
24	49,640	120,857	63,493	59,421	63,800	1,430,788	1,456,310	3,129,995	11,372,670
25	52,573	126,514	54,383	50,310	55,354	1,830,981	1,908,199	4,149,519	15,534,477
26	47,991	117,572	60,708	55,649	60,280	1,828,765	1,947,688	4,314,552	15,806,610
27	47,687	115,842	54,552	50,886	55,121	1,202,722	1,175,439	2,533,894	9,161,046
28	53,756	125,161	64,564	59,598	65,179	1,173,714	1,125,886	2,387,957	8,578,872
29	49,379	118,874	59,412	55,946	61,085	1,110,676	1,061,469	2,242,372	8,141,445
30	49,108	113,887	50,841	46,851	49,992	1,111,659	1,069,693	2,258,212	7,998,345
31	48,926	117,608	51,079	47,019	51,694	1,135,916	1,102,272	2,366,265	8,543,205
Total	1,591,657	3,808,621	1,661,416	1,542,817	1,679,758	39,961,956	39,614,919	84,999,772	308,538,450

**Table 38. Southern Field Division Energy Data**

(in kWh)

July 2009

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	392,221	946,398	1,512,000	251,137	1,609,401	2,604,995	158,253	48,151	49,376	3,134
2	346,685	947,465	1,512,000	292,172	1,617,852	2,799,074	159,833	42,890	42,935	614
3	350,002	945,823	1,512,000	253,268	1,275,005	2,954,037	155,904	38,559	38,121	559
4	308,367	945,750	1,512,000	250,793	1,362,279	2,563,827	155,353	38,203	38,257	558
5	786,637	947,979	1,512,000	275,883	1,456,933	2,715,331	163,315	39,564	44,455	556
6	385,291	947,848	1,512,000	292,425	1,421,560	2,727,946	160,933	31,548	38,778	582
7	350,620	947,793	1,512,000	260,566	1,400,803	2,742,350	154,433	30,480	35,022	3,343
8	389,785	947,272	1,512,000	272,858	1,499,946	2,470,898	173,730	30,298	34,977	3,047
9	305,616	946,958	1,512,000	317,414	1,601,586	2,425,384	184,975	35,007	34,989	549
10	404,319	947,736	1,512,000	215,136	1,394,571	2,500,346	138,285	37,386	35,012	536
11	462,578	947,876	1,512,000	285,750	1,248,885	2,444,495	139,077	37,603	35,065	598
12	602,014	947,247	1,512,000	310,748	1,846,252	2,238,130	215,919	41,066	38,680	621
13	423,677	947,520	1,512,000	279,938	1,341,358	2,418,744	134,064	48,763	49,384	658
14	350,675	946,542	1,512,000	294,044	1,405,591	2,538,712	159,069	48,437	49,377	3,573
15	392,202	945,450	1,512,000	268,672	1,547,830	2,626,469	169,019	48,105	49,400	3,342
16	360,278	947,044	1,512,000	285,356	1,628,548	2,590,545	167,669	47,831	49,431	690
17	587,271	946,499	2,448,000	296,196	1,330,103	2,443,360	136,708	48,100	49,423	644
18	532,321	947,420	2,448,000	273,697	1,367,335	2,278,030	158,961	49,341	49,504	678
19	827,155	948,054	2,448,000	349,861	1,949,400	2,439,610	207,063	50,203	49,556	724
20	627,075	947,217	2,448,000	299,992	1,518,945	2,916,666	155,635	40,575	39,719	723
21	600,919	948,223	2,448,000	278,278	1,380,615	2,600,549	147,697	32,277	35,191	3,647
22	559,551	947,718	2,448,000	254,081	1,191,405	2,571,733	131,378	40,850	45,890	3,180
23	627,522	946,270	2,448,000	226,758	1,285,234	2,729,016	144,457	43,548	49,384	673
24	629,658	945,984	2,448,000	318,993	1,595,888	2,695,730	171,531	43,945	49,397	632
25	939,370	946,384	2,448,000	332,316	2,010,419	2,874,724	240,415	44,482	49,439	661
26	852,751	946,990	2,448,000	339,085	2,108,075	2,713,966	226,620	47,609	49,432	661
27	343,723	947,003	1,512,000	271,895	1,701,013	2,683,481	168,608	47,170	40,153	682
28	308,343	947,662	1,512,000	273,311	1,568,701	2,600,151	181,601	38,790	35,046	3,449
29	377,733	946,282	1,512,000	224,973	1,316,657	2,743,023	155,871	45,923	45,705	3,191
30	361,886	946,300	1,512,000	263,167	1,268,825	2,540,901	144,069	48,895	49,327	667
31	352,140	946,555	1,512,000	266,319	1,369,940	2,596,823	132,383	43,821	49,339	619
Total	15,138,385	29,357,262	56,232,000	8,675,082	46,620,955	80,789,046	5,092,828	1,309,420	1,349,764	43,791

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.